UNIV. OF MICHIGAN
JUL 7 1952
EAST ENGINEERING
LIBRARY

JOURNAL

VOLUME 8 NUMBER 6 • JUNE, 1952

Photo Courtesy U. S. Rubber Company

Vibrin polyester is used for these patented GlaShaft clubs designed, with the assistance of pros, by **Richard J.** Francis Associates of Newark, Ohio. The translucent, tubular GlaShaft compares favorably in weight and performance with steel-shafted clubs and offers unique coloring possibilities.

PUBLISHED BY THE SOCIETY OF PLASTICS ENGINEERS, INC.

Electrical resistivity, fine smooth finish, and low cost are all combined in this household panel-board circuit breaker. It's readily and rapidly molded from **BAKELITE General-Purpose Phenolic BM-2498.**

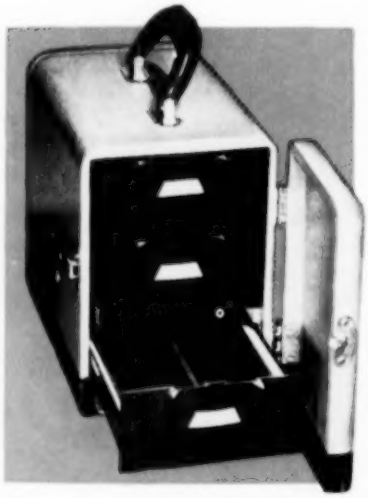
Made for Heinemann Electric Co., Trenton, N. J., by Kuhn & Jacob Molding & Tool Co., Trenton, N. J.

This plunger for commercial orange juice squeezer is molded from **BAKELITE General-Purpose Phenolic BM-93.** Strong, smooth, easily cleaned, it is also resistant to action of citric acid.

Made for Turbo Machine Co., Lansdale, Pa., by Plastic Fabricators Inc., Fernwood, Pennsylvania.

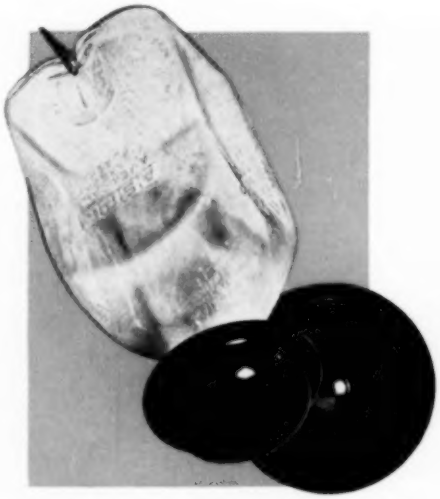
This loading port ring for automatic clothes dryer stays smooth—won't snag clothes. Made from **BAKELITE Improved-Impact Phenolic BM-6260,** it resists soap and detergents, heat, and impact in loading clothes.

Made for Hamilton Mfg. Co., Two Rivers, Wis., by Chicago Molded Products Corp., Chicago, Ill.



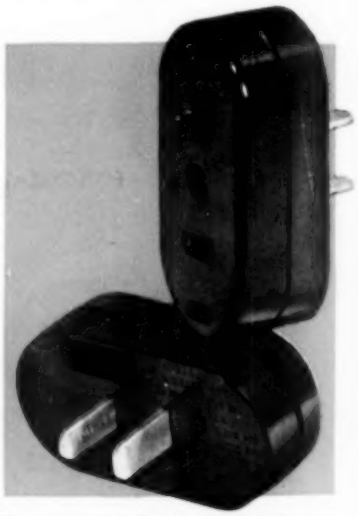
Slide file drawers are molded from **BAKELITE General-Purpose Phenolic BM-14660,** which offers these advantages: easy flow for deep-draw molding, rich brown mottled finish, and dimensional stability.

Molded for Barnett & Jaffe, Phila., Pa., by Anrob Mfg. Co., Phila., Pa.



Cap for automatic venting and vacuum sealing closure for surgical fluid containers is molded of **BAKELITE Heat-Resistant Phenolic BM-13335.** It withstands repeated sterilization in saturated steam at 250 deg. F., 15 psi. pressure for 30 minutes.

Made for American Sterilizer Co., Erie, Pa., by Perry Plastics Inc., Erie, Pa.



This "Fireguard" fuse coupling contains a low amp. safety fuse, can be plugged into standard wall outlets. Molded from **BAKELITE General-Purpose Phenolic BM-2438,** the case has high dielectric strength and handsome lustrous finish.

Molded for F. H. Smith Mfg. Co., Chicago, Ill., by Hausser Products, Chicago, Ill.

Good reasons all— for selecting Phenolic Plastics!

If you're looking for impact strength, ease of molding, chemical resistance, or a combination of such qualities—try BAKELITE Phenolic Plastics!

The wide variety of BAKELITE Phenolic Plastics makes your selection easy. You can pick the plastic that's *right* for the job. And the examples above show how many *different* jobs phenolic plastics are finding today.

Make sure that your product is made from the best, most useful, most suitable molding material. Look into BAKELITE Phenolic Plastics for better design, performance, saleability. Our engineers will help you. Write Dept. EB-43.

BAKELITE

TRADE-MARK

PHENOLIC PLASTICS

TRADE MARK

BAKELITE COMPANY

A Division of Union Carbide & Carbon Corporation

30 East 42nd Street, New York 17, N. Y.

In Canada:

Bakelite Company (Canada) Ltd., Belleville, Ont.

JOURNAL

Vol. 8 June, 1952 No. 6

Published monthly except July and August by the

SOCIETY OF PLASTICS ENGINEERS, INC.
409 SECURITY BANK BLDG.
ATHENS, OHIO

Dr. Jesse H. Day, Editor

Editorial Advisory Board: MARIO PETRETTI, J. H. DUBOIS, WAYNE PRIBBLE, CARL J. FROSCH

30 cents a copy **$3.00 a year**

Entered as second-class matter at the Post Office at Athens, Ohio.

Copyright 1952 by the Society of Plastics Engineers, Inc.

INDEX

Roster of the Membership 7

EDITORIALS

Management Looks at the SPE
By F. A. Abbiati 5

ARTICLES

Successful Designing for plastics Molding
By W. M. Halliday 45

FEATURES

The Injection Molderscope—A. R. Morse 50

SECTION NEWS

Chicago 47; Connecticut 49; Eastern New England 46; Miami Valley 44; New York 48; Northwest Pennsylvania 50; Philadelphia 46; Southern California 49; Toronto 52; Upper Midwest 52.

ADVERTISERS

Bakelite Co., Div. of Union Carbide and Carbon Corp. 2
Barner-Pribble and Co. 47
Injection Molder's Supply Co. 48
Manco, Inc. 52
Metasap Chemical Co. 51
Newark Die Co. 6
Sterling, Inc. 48
Synvar, Inc. 44
Watson-Stillman 4

The Society of Plastics Engineers Journal is not responsible for the views expressed by individual contributors. Copy for each issue should be received at 409 Security Bank Bldg., Athens, Ohio, before the fifth of each month.

Letters to the Editor

Society of Plastics Engineers
409 Security Bank Bldg.
Athens, Ohio

I appreciate very much your letter of the 8th. in the matter of the "film casting plant for sale." I will appreciate very much if you will publish the letter as you suggested, and the facts in this connection are:

A plant for the manufacture as by casting on an endless belt (stainless steel) viscous materials to form a film. The thickness range is from .0007" to .002". One machine will form the film as of 48" wide and the other machine will form the film as of 30" width, automatically.

Compounds may be acetate, nitrate, butyrate, ethyl, methacrylates, styrenes, polyvinyl alcohols, polyester, etc.

The approximate poundage formed in the form of film is between 700 and 1100 pounds per 24 hours, and this depends a lot on the nature of the compound to form the film and the thickness of the film formed.

Inspection of the plant is invited by serious parties, and will stand rigid inspection and investigation. No promoters tolerated.

I thank you.

Cordially yours,
Samuel Wein

DEVELOPMENT ENGINEER

Established Massachusetts firm has unusual opportunity for college trained engineer capable of assuming the responsibility for plastic product development. Basic analytical approach to problems, initiative, ingenuity and mechanical aptitude more important than previous plastic experience. Submit complete resume including education and salary required to Box 652 SPE Journal, 409 Security Bank Bldg., Athens, Ohio.

Your Opportunity To Serve The Plastics Industry And SPE

The SPE Journal is growing, and its staff must grow too, if we are to do the best job.

Men are needed to abstract foreign journals—usually an abstractor will be responsible for one journal, or he may share the job.

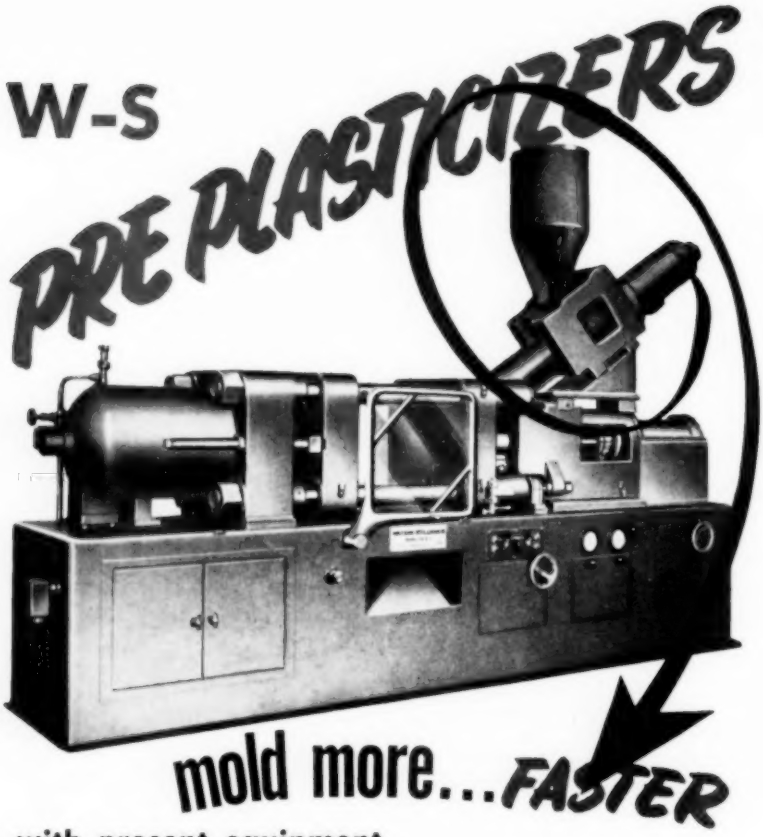
Four of the publications are in English; others are in French, Danish, Swedish, Dutch, Spanish and Portuguese.

Here's an **important** job—for **you**!

Please write for further details to Jesse H. Day, 409 Security Bank Bldg., Athens, Ohio.

W-S

PRE PLASTICIZERS



mold more...FASTER

with present equipment.

Yes, the fastest way to increase the productive capacity of your plant, is to install on your present injection molding machines—Watson-Stillman PREPLASTICIZERS.

Years away from the experimental stage, W-S modern PREPLASTICIZING Units are designed and built to mount right into position on present machines, and when installed, they give you the following advantages in your molding operations:

1. **Shorter Molding Cycles . . . In many cases cycles can be cut one-third to one-half.**
2. **Piece weight savings in a great number of cases can be immediately realized.**
3. **Better Moldings . . . Because the material in the shooting cylinder is completely plasticized at the start of the injection stroke, injection pressures in most cases can be reduced fifty percent or more, resulting in strain-free moldings and less rejections.**
4. **Thinner Sections possible . . . Wherever warranted, thinner sections are obtainable by means of using maximum injection pressure on the plasticized material without the pressure restriction caused by the torpedo.**

And . . . don't forget, WATSON-STILLMAN has been building PREPLASTICIZERS for years and offers a complete line of these units for all E—Series injection molding machines. Let us tell you more about them. Write today.

9-M-3'8

W-S "COMPLETELINE"—SHORTEST DISTANCE FROM PRODUCTION TO PROFIT

HYDRAULIC MACHINERY DIVISION

WATSON-STILLMAN

Established 1848

Main Office, 153 Aldene Rd., Roselle, New Jersey

Branch Office: 228 No. La Salle St., Chicago, Ill.

Manufactured in Canada by—Canadian Vickers, Ltd., Montreal

Foreign Sales Representatives: OMNI PRODUCTS CORP.

460 Fourth Avenue, New York 16, N. Y.

Editor's Outlook

Significant developments in plastics materials, machines and techniques are developed abroad as well as in the U. S. We need only mention the German work with PVC and the English pioneering in ethylene as examples.

To keep abreast of the current trends one should have to read at least a dozen plastics magazines from abroad—and even if one had the time (and money!) still not many of us read five languages!

A solution to the problem is near—just read the SPE Journal!

Because—

Starting with the September issue, abstracts of the foreign journals will appear in the SPE Journal, and we hope to make these abstracts useful in carrying the essential information from the articles abstracted. An occasional very fine article may be reprinted in full.

We have completed mutual reprint agreements with these magazines, and as a result SPE papers appear each month in magazines from Europe to Australia!

We need more people to join our staff of abstractors—the magazines are furnished to you. We need men for journals in English, Dutch and Swedish especially.

And readers, we want—and need—your comments, to make our abstracts of greatest use to you.

The SPE Journal for September will be a very pleasant surprise in more ways than one! Watch for it.

Prize Paper Contest

The annual SPE Prize Paper Contest gives the men in the plastics industry with ideas a chance to show those ideas to the whole industry. Sponsored each year by SPE, the contest accepts entries without limitation as to SPE membership or any other qualification.

Here are the rules:

Papers submitted to the contest may deal with any phase of the plastics business: chemistry, production, manufacturing, extrusion, casting, molding, machinery, materials handling, plastics labeling, ideas for sales or merchandising—the only restriction is that the paper deal with some phase of plastics.

Each section chooses its best paper which is then sent to the national judges. This year judges are J. Harry DuBois, chairman, Frank W. Reinhart, H. L. Whann, A. J. Warner and Carmen R. Giannotta.

In addition to local prizes, National SPE prizes are $200, $100, and $50, together with an engraved certificate.

Last date for submitting papers to the contest is November 1, 1952.

Management Looks at the SPE

F. A. Abbiati

Vice President, Monsanto Chemical Co.

In your letter of April 9th, you ask the questions:—

1. What can S.P.E. do?
2. How can we do it?
3. What is our particular value to the individual in the industry?

In our opinion, the S.P.E is admirably equipped to assist the individuals in the industry to move forward and to build a broader more substantial base by devoting its efforts to the collection and distribution of the latest technical information on new and established products and procedures to

1. The plastics industry
2. Industry in general
3. Designers, architects, research laboratories and others interested in such data
4. Government agencies
   (a) Staff departments
   (b) Air Force
   (c) Navy
   (d) Army

In addition, the S.P.E. could through its entire membership work towards the standardization of

1. Nomenclature
2. Test methods
3. Specifications
   (a) For industrial end use
   (b) For government end use

In other words, it is our feeling that S.P.E. has a wonderful opportunity to perform for the plastics industry as the A.S.M.E. functions for the mechanical engineering industry, and the S.A.E. for the automotive industry.

It is not beyond the realm of possibility that the S.P.E. will in the years to come be known as the Technical Society of the Plastics Industry, and through its committees will control design and engineering functions relating to the use of innumerable if not all of our plastics.

The individuals in the industry should profit handsomely through association with others in a dynamic organization just as have those members of the present engineering and automotive societies.

Year after year...

NEWARK DIE CUSTOMERS* COME BACK

***MORE THAN**

50%

OF THE

PRESENT

customers of Newark Die have been consistent customers for 15 years or more

When plastic molders *keep* on using the same mold supplier, it's because *they* know they can count on the molds to produce precision parts—and to stand up in service.

The quality of our molds has brought many *new* customers to Newark Die throughout the years. Even more important, we have *retained* the same *old* customers for years.

Our enlarged tool room facilities have enabled us to maintain our high standards of quality and to continuously give good service.

NEWARK DIE COMPANY

22 SCOTT STREET, NEWARK 2, N. J.

Phone: MArket 2-3305

NDCo TRADE MARK

Membership Roster
of the
Society of Plastics Engineers, Inc.

OFFICERS

WILLIAM O. BRACKEN ..... President
WALTER F. OELMAN ..... Vice-President
BESS R. DAY ..... Executive Secretary
DON HOFFMAN ..... Treasurer
JOHN LA BELLE ..... Secretary

MEMBERS OF THE COUNCIL

FRANK REINHART ..... Baltimore-Washington
HAIMAN S. NATHAN ..... Buffalo
RICHARD J. FRANCIS ..... Central Ohio
LEROY J. SWIFT ..... Chicago
G. E. FIELD ..... Cleveland
LEWIS PENTLAND ..... Connecticut
DON F. HOFFMAN ..... Detroit
JOHN LA BELLE ..... Eastern New England
JOSEPH SMITH ..... Golden Gate
WALTER F. OELMAN ..... Miami Valley
ISLYN THOMAS ..... Newark
HAROLD LEVEY ..... New Orleans
STANLEY BINDMAN ..... New York
WAYNE I. PRIBBLE ..... Northern Indiana
LOUIS H. BARNETT ..... North Texas
WILLIAM CONROY ..... Northwestern Pennsylvania
W. O. BRACKEN ..... Philadelphia
ROBERT GRAHAM REA ..... Quebec
RICHARD BRUCE ..... Rhode Island & S.E. Mass.
GERARD DE LAIRE ..... Rochester
DAN OTTO ..... St. Louis
M. J. PETRETTI ..... Southeastern Ohio
WILLARD LUNDBERG ..... Southern California
CARL J. ECKENROD ..... South Texas
R. E. DUNHAM ..... Toledo
ZOLTAN MERSZEI ..... Toronto
JEROME FORMO ..... UpperMidwest
SHERWOOD L. YOUNG ..... Westren New England

LIFE MEMBERS

GEORGE W. CLARK
FRED CONLEY
J. HARRY DU BOIS
WILLIAM H. HOEY

HONORARY MEMBERS

MRS. VIOLA MAKEEVER
CAPT. RALPH O. PHILLIPS, USNR

NATIONAL COMMITTEES

BY-LAWS AND RULES
Robert Dunham
H. J. McGowan
H. A. MacArthur
H. Haaxma

CREDENTIALS
Richard B. Bishop
James T. Growley
William J. Dunnican
Joseph P. Healey
T. E. Richards

EDUCATION
James M. Church
J. H. DuBois
R. C. Bartlett
Fred Wehmer
Norman A. Skow
Louis F. Rahm
Bryce Maxwell
C. C. Winding
J. J. Chapman
J. W. Lindau, III
Murray Olyphant, Jr.
Ferris E. Newman
B. K. Lyckberg
W. T. Nazzaro

ELECTION INSPECTORS
E. L. Hobson

EXECUTIVE COMMITTEE
W. O. Bracken
W. F. Oelman
J. W. LaBelle
D. F. Hoffman
Islyn Thomas
Richard H. Bruce

FINANCE COMMITTEE
Walter F. Oelman
Don F. Hoffman
A. R. Morse
S. L. Young
John LaBelle

MEMBERSHIP COMMITTEE
Joseph P. Healey
J. Clarke Cassidy, Jr.
B. D. Ashbaugh
H. M. McDaniel
Rene P. Magnenat
John T. Moore
John Brierley
J. D. Sherman
Richard Thews
A. L. Barrier
G. H. Koch, Jr.
Emil Kleiner
L. Loveless
Dan Otto
Chris Kacalieff
J. A. Verburg
A. C. Young
Frank Chalmers
E. J. Sullivan
A. McL. Carr-Harris
C. L. Barker
Albert Shunaman

PRIZE PAPER CONTEST
J. Harry DuBois

PUBLICATIONS COMMITTEE
Jesse H. Day
E. E. McSweeney
M. Arthur
A. M. Merrill
E. W. Rowan

PUBLIC RELATIONS
Ned Porte

PUBLICITY
P. A. Belk
M. W. Osborne
A. M. Merrill

SPEAKERS COMMITTEE
Frank Reinhart

TECHNICAL CONFERENCE
J. T. Bent
John W. LaBelle
Wilfred Lynch
Stanley Bindman

PROFESSIONAL ACTIVITIES GROUPS

Walter Oelman, Co-ordinator
Standard Molding Corp.
1517 E. Third Street
Dayton, Ohio

AREA I
Sanford E. Glick
Monsanto Chemical Co.
Springfield, Mass.

Edward Vaill
Bakelite Company
410 Asylum St.
Hartford, Conn.

AREA II
Joseph P. Healey
82 Enola Ave.
Buffalo 17, N. Y.

Irving Duviner
Dulev Plastics Ltd.
35 Hanna Ave.
Toronto, Ontario, Canada

AREA III
Albert A. Kaufman
Industrial Synthetics Corp.
225 North Ave.
Garwood, N. J.

Allan A. Hutchings
F. J. Stokes Machine Co.
Olney Post Office
Philadelphia, Pa.

AREA IV
Ward T. Van Orman
Goodyear Research
Goodyear Tire & Rubber Co.
Akron, Ohio

George E. Field
B. F. Goodrich Chemical Co.
324 Rose Building
Cleveland, Ohio

AREA V
Donald F. Hoffman
Evans-Winter-Hebb, Inc.
818 W. Hancock
Detroit, Mich.

John K. Totten
19 Bennington Lane
Dearborn, Mich.

AREA VI
Jerome L. Formo
Minneapolis-Honeywell Reg. Co.
2753 Fourth Ave. S.
Minneapolis, Minn.

Don Williams
Chippewa Plastics, Inc.
Chippewa Falls, Wisc.

AREA VII
Louis H. Barnett
Loma Plastics, Inc.
P.O. Box 11277
Ft. Worth, Texas

Gordon Thayer
Dow Chemical Co.
Midland, Mich.

AREA VIII
John Delmonte
Furane Plastics
719 W. Broadway St.
Glendale 4, Calif.

BALTIMORE-WASHINGTON

OFFICERS

President

Clinton Rector
National Eng. Prod., Inc.
Washington Bldg.
Washington 5, D. C.

Vice-President

T. Milton Oler, Jr.
4814 Park Hts. Ave.
Baltimore 15, Md.
(Glenn L. Martin Co.)

Secretary

Charles N. Gardner
201 Swann Rd.
Suitland, Md.
(Office of Q.M. General)

Treasurer

H. A. Perry, Jr.
RFD #2, Laytonsville
Gaithersburg, Md.
(Naval Ordnance Lab.)

National Director

Frank Reinhart
Organic Plastics Section
Natl. Bur. of Standards
Washington 25, D. C.

Members

William R. Bailey
1536 Conn. Ave., N.W.
Washington, D. C.
(Allied Plastics Corp.)

F. Robert Barnet
10228 Howard Ave.
Kensington, Md.
(Naval Ordnance Lab.)

Lawrence Brandt
3106 Wolcott Ave.
Baltimore 16, Md.
(Glenn L. Martin Co.)

Frank H. Carman
Mfg. Chemists' Assn. Inc.
234 Woodward Bldg.
Washington 5, D. C.

Walter K. Clark
36 Fairchild St.
Naugatuck, Conn.
(Naugatuck Chemical Div.)

John Tatum Cox, Jr.
Room 303
1518 K. St., N.W.
Washington 5, D. C.

Willard DeC. Crater
61 Nettleton Ave.
Naugatuck, Conn.
(Naugatuck Chemical Div.)

John M. De Bell
100 Crescent Rd.
Longmeadow, Mass.
(DeBell & Richardson, Inc.)

Robert E. Duval
(No Address)

Ray E. Eshenaur
(No Address)

Philip M. Fairbanks
Fairbanks, Stafford & Fairbanks
1001-15th St., N.W.
Washington 5, D. C.

Thomas H. Garber
General Textile Mills, Inc.
Room 422 Munsey Bldg.
13 & E. Sts., N.W.
Washington, D. C.

C. N. Gardner
201 Swann Rd.
Suitland, Md.
(Office of Q.M. General)

Philip M. Goodwin
Bur. of Aeronautics—Navy
Room 1N58
Washington, D. C.

John J. Gurtowski
9005 Seneca Lane
Bethesda, Md.
(Natl. Bur. of Standards)

Leonard Hardis
Naval Ordnance Lab.
Plastics Div.
White Oak, Md.

P. Dudley Kaley
Room 704
1507 M. St., N. W.
Washington 5, D. C.

Peter King
Naval Research Lab.
Washington 20, D. C.

Gordon M. Kline
Natl. Bur. of Standards
Washington 25, D. C.

Albert Lightbody
Naval Ordnance Lab.
White Oak, Md.

James J. Myers
128 N. Wayne St. Apt #6
Arlington, Virginia
(Briggs Filtration Co.)

Carl A. Nielson
107 Grant Ave.
Takoma Park 12, Md.
(Army Medical Center)

Daniel Irvin Nitzberg
Eastern Venetian Blind Co.
1601 Wicomico St.
Baltimore 30, Md.

T. Milton Oler, Jr.
4814 Park Hts. Ave.
Baltimore 15, Md.
(Glenn L. Martin Co.)

H. A. Perry, Jr.
RFD #2 Laytonsville
Gaithersburg, Md.
(Naval Ordnance Lab.)

C. F. Prutton
Mathieson Chemical Corp.
10 Light St.
Baltimore, Md.

Clinton Rector
Natl. Engr. Products, Inc.
Washington Bldg.
Washington 5, D. C.

Frank W. Reinhart
Organic Plastics Section
Natl. Bur. of Standards
Washington 25, D. C.

Nancy W. Rucker
1612 Eye St., N.W.
Washington 6, D. C.

Clayton F. Ruebensaal
RD #3
Waterbury, Conn.
(Naugatuck Chemical Div.)

Arthur Schroder
2339 N. 11th St.
Arlington, Virginia
(Dept. of Commerce)

Donald T. Soncrant
964 W. Cross St.
Ypsilanti, Mich.
(Kaiser-Frazier Corp.)

Frank Y. Speight
National Research Council
2101 Constitution Ave.
Washington 25, D. C.

William M. Temple
Glass Fibers, Inc.
1010 Vermont Ave., N.W.
Washington 5, D. C.

Aung Thin
Embassy of Burma
2228 Massachusetts Ave.
Washington, D. C.

Robert W. Weeks
(No Address)

James W. Whitfield
6321 32nd St., N.W.
Washington, D. C.
(Shaw Insulator Co.)

Herman J. Wiesner
(No Address)

Harry C. Williams, Jr.
Lockheed Aircraft Corp.
Marietta, Ga.

Ralph K. Witt
Johns Hopkins Univ.
Charles & 34th Sts.
Baltimore 18, Md.

Irvin Wolock
2205 Washington Ave.
Silver Spring, Md.
(Natl. Bur. of Standards)

James S. Wolff
B. F. Goodrich Chem. Co.
1112-19th St., N.W.
Washington 6, D. C.

BUFFALO

OFFICERS

President

Haiman S. Nathan
Atlas Plastics, Inc.
162 Colgate Ave.
Buffalo, N. Y.

Vice-President

John E. Miner
78 Crosby Avenue
Kenmore 17, N. Y.
(Spaulding Fibre Co., Inc.)

Secretary

William B. Glass
Clinwell Plastics, Inc.
701 Seneca St.
Buffalo, N. Y.

Treasurer

Edmond A. Leone
25 Garden Court
Eggertsville, N. Y.
(Curbell, Inc.)

National Director

Haiman S. Nathan
Atlas Plastics, Inc.
162 Colgate Ave.
Buffalo, N. Y.

Members

Richard A. Baumgartner
2645 Porter Rd.
Niagara Falls, N. Y.
(The Carborundum Co.)

Edward F. Borro
424 N. Forest Rd.
Williamsville 21, N. Y.
(Durez Plastics & Chem.)

Percy P. Bowen
International Filler Corp.
North Tonawanda, N. Y.

Fred H. Branstetter
29 Rugby Rd.
Buffalo, N. Y.
(Worthington Pump & Machinery Corp.)

Paul H. Bronnenkant
Sterling Molders, Inc.
277 Military Rd.
Buffalo 7, N. Y.

George F. Brown
Plastics Engr. & Dev. Co.
283 Wildwood St.
Salamanca, N. Y.

Henry E. Bryzinsky
47 Highland Ave.
Tonawanda, N. Y.
(Durez Plastics & Chem.)

Melvin L. Buike
429 Wheatfield St.
North Tonawanda, N. Y.
(Carborundum Co.)

Cort F. Cary
97 Bryant St.
North Tonawanda, N. Y.
(Spaulding Fibre Co., Inc.)

J. Clarke Cassidy, Jr.
DuBois Plastics Prod., Inc.
170 Florida St.
Buffalo 8, N. Y.

Raymond C. Confer
DuBois Plastics Prod., Inc.
170 Florida St.
Buffalo, N. Y.

W. L. Moyne Cooley
Prince Rubber Co.
889 Niagara St.
Buffalo 13, N. Y.

Herman J. Deney
Pierce & Stevens, Inc.
710 Ohio Street
Buffalo, N. Y.

Alex N. DiAddario
Molds & Mfg., Inc.
3222 Union Road
Buffalo 25, N. Y.

Arthur A. Engl
19 Oakmont Ave.
Buffalo 15, N. Y.
(Sterling Molders, Inc.)

William B. Glass
Clinwell Plastics, Inc.
701 Seneca Street
Buffalo 3, N. Y.

George J. Goepfert
Speer Carbon Co.
St. Marys, Pa.

George H. Hake
Hake Mfg. Co., Inc.
440 Terrace Blvd.
Depew, N. Y.

Melvin Harfman
16 Inwood Place
Lancaster, N. Y.
(Hake Mfg. Co., Inc.)

Joseph P. Healey
82 Enola Ave.
Buffalo 17, N. Y.
(Manco Products)

John C. Henderson
112 Cadman Dr.
Williamsville 21, N. Y.
(Atlas Plastics, Inc.)

Elmer E. Howard
171 Villa Ave.
Buffalo 23, N. Y.
(Carborundum Co.)

Robert H. Jeeves
Durez Plastics & Chem. Inc.
Walck Road
North Tonawanda, N. Y.

John C. Karnes
R.F.D. #3
Lockport, N. Y.
(Durez Plastics & Chem.)

Vernon Kessig
24 Dufferin St.
Welland, Ontario, Canada
(Thermold Mold & Tool Div. of Joseph Stokes)

Henry J. Kirsch
Carborundum Co.
Niagara Falls, N. Y.

Ellis C. Knobloch
Spaulding Fibre Co., Inc.
Tonawanda, N. Y.

Charles H. Larkin, II
Michigan Molded Plastics
25 Delaware Ave.
Buffalo 2, N. Y.

Gerry La Vere
84 Delaware Rd.
Buffalo 7, N. Y.
(Curbell, Inc.)

Edmond A. Leone
25 Garden Court
Eggertsville, N. Y.
(Curbell, Inc.)

Roland D. McDonald
Varcum Chem. Corp.
Niagara Falls, N. Y.

John F. Miller
342 N. Park Ave.
Buffalo 16, N. Y.
(Durez Plastics & Chem.)

Robert W. Miller
3 Hillview Ct.
Lewiston, N. Y.
(Carborundum Co.)

John E. Miner
78 Crosby Ave.
Kenmore 17, N. Y.
(Spaulding Fibre Co., Inc.)

Richard W. More
287 Highland St.
Milton 86, Mass.
(Durez Plastics & Chem.)

Haiman S. Nathan
Atlas Plastics, Inc.
162 Colgate Ave.
Buffalo, N. Y.

W. J. Neelon
67 Summit Ave.
Buffalo 14, N. Y.
(Erie Resistor Corp.)

Richard F. Oleksiak
Spaulding Fibre Co., Inc.
410 Wheeler St.
Tonawanda, N. Y.

Kurt H. Osberg
Tech Plastics Co.
45 Island St.
North Tonawanda, N. Y.

C. C. Pickering, Jr.
67 Lexington Ave.
Buffalo 9, N. Y.
(Plastics Engineering Co.)

Sidney W. Prince
Prince Rubber Co., Inc.
889 Niagara St.
Buffalo, N. Y.

Eugene C. Roeck
134 Lancaster Ave.
Buffalo 22, N. Y.
(Durez Plastics & Chem.)

Walter Ruff
1850 Walden Ave.
Buffalo 25, N. Y.
(R & F Findings)

Ralph H. Rushmer
Carborundum Co.
Buffalo Ave.
Niagara Falls, N. Y.

E. A. Russell
Spaulding Fibre Co., Inc.
310 Wheeler St.
Tonawanda, N. Y.

Arthur G. Scutt
The Carborundum Co.
Buffalo Ave.
Niagara Falls, N. Y.

Peter L. Shanta
3063 Livingstone Ave.
Niagara Falls, N. Y.
(Carborundum Co.)

Alan A. Sim
Norton Laboratories, Inc.
Lockport, N. Y.

Herbert S. Spencer
Durez Plastics & Chem.
North Tonawanda, N. Y.

Hobart T. Still
Still Plastic Co.
474 Grant St.
Buffalo, N. Y.

Ransom D. Thilk
2005 Delaware Ave.
Buffalo 16, N. Y.
(The Vorac Company)

Frederick A. Upper
The Carborundum Co.
Niagara Falls, N. Y.

H. G. Valentine
Norton Laboratories, Inc.
Lockport, N. Y.

Richard R. Van Geem
209 Traverse Blvd.
Kenmore 17, N. Y.
(Trico Products Corp.)

James V. Veverit
70 McKinley Ave.
Kenmore 17, N. Y.
(McDonald Products Corp.)

George W. Volckhausen
Owens-Corning Fiberglas
1807 Liberty Bank Bldg.
Buffalo, N. Y.

Norman E. Wahl
Cornell Aeronautical Lab.
4455 Genesee St.
Buffalo 21, N. Y.

Alfred W. Wandschneider
2952 N. 76th St.
Milwaukee, Wisc.
(Durez Plastics & Chem.)

Robert N. Youngblood
Trimold
1011 Military Road
Kenmore 17, N. Y.

CENTRAL OHIO

OFFICERS

President

Robert W. King
Battelle Memorial Inst.
505 King Avenue
Columbus 1, Ohio

Secretary

Richard A. Clark
Battelle Memorial Inst.
505 King Avenue
Columbus 1, Ohio

Treasurer

Henry W. Kuhlman
Battelle Memorial Inst.
505 King Avenue
Columbus 1, Ohio

National Director

Richard J. Francis
105 S. 33rd St.
Newark, Ohio
(Consultant)

Members

Clare E. Bacon
815 Mt. Vernon Rd.
Newark, Ohio
(Owens-Corning Fiberglas)

Raymond G. Booty
Booty Resineers, Inc.
112 Jefferson St.
Newark, Ohio

William J. Braley
Columbus Plas. Prods., Inc.
1625 W. Mound St.
Columbus 4, Ohio

Richard A. Clark
Battelle Memorial Inst.
505 King Avenue
Columbus, Ohio

Jesse Harold Day
Ohio University
Athens, Ohio

Robert L. Davis
506 Franklin St.
Portsmouth, Virginia
(Southeastern Plas., Inc.)

Charles A. Ebner
Yardley Plastics Co.
142 Parsons Ave.
Columbus 15, Ohio

Richard J. Francis
105 S. 33rd St.
Newark, Ohio
(Consultant)

John E. Henry
Earl Fisher Plastics Co.
347 E. Barthman Ave.
Columbus 7, Ohio

Frederick B. Hill, Jr.
Yardley Plastics Co.
142 Parsons Ave.
Columbus 15, Ohio

Robert E. Hill
2639 Berwyn Road
Columbus 12, Ohio
(Cols. Plas. Prods., Inc.)

Walter E. Jacobson
Yardley Plastics Co.
142 Parsons Ave.
Columbus 15, Ohio

Charles P. Karshner
830 E. Weber Rd.
Columbus, Ohio
(Yardley Plastics Co.)

G. W. Keny
Columbus Plas. Prods., Inc.
1625 W. Mound St.
Columbus 4, Ohio

Robert W. King
Battelle Memorial Inst.
505 King Avenue
Columbus, Ohio

William L. Kline
Windale Farms
Galena, Ohio
(Kline Mfg. Co.)

Roger B. Knowles
640 Mt. Vernon Rd.
Newark, Ohio
(Owens-Corning Fiberglas)

Henry W. Kuhlmann
Battelle Memorial Inst.
505 King Avenue
Columbus, Ohio

Paul J. McBride
Columbus Plas. Prods., Inc.
1625 W. Mound St.
Columbus 4, Ohio

E. E. McSweeney
Battelle Memorial Inst.
505 King Avenue
Columbus, Ohio

L. S. Meyer
Western Products, Inc.
Newark, Ohio

H. J. Miller
153 W. High St.
Mt. Gilead, Ohio
(Hydraulic Press Mfg. Co.)

Norbert James Palmer
Ranco, Inc.
601 W. 5th Ave.
Columbus, Ohio

D. S. Poulton
2475 Sherwin Rd.
Columbus 12, Ohio
(Cols. Plas. Prods., Inc.)

Robert A. Rachwall
1777 Franklin Park, S.
Columbus, Ohio

George Reinhardt
Yardley Plastics Co.
142 Parsons Ave.
Columbus 15, Ohio

Nathan Roop
2495 Chester Rd.
Columbus 12, Ohio
(Cols. Plas. Prods., Inc.)

R. W. Rosel
Yardley Plastics Co.
142 Parsons Ave.
Columbus 15, Ohio

Kenneth E. Sherer
Marion Road
Mt. Gilead, Ohio
(Armed Forces)

Bert S. Taylor
Ohio-Apex, Inc.
Nitro, West Virginia

Arthur R. Welch
Welch Plastics & Mfg. Co.
814 W. Third Avenue
Columbus 8, Ohio

Robert C. Williams
The Ironsides Co.
Box 1999
Columbus 16, Ohio

CHICAGO

OFFICERS

President

Maurice Meltzer
6052 N. Troy
Chicago 45, Ill.
(Service Plastics)

Vice-President

John T. Bent
Tennessee Eastman Corp.
360 N. Michigan Ave.
Chicago, Ill.

Secretary-Treasurer

Victor Edward Serrell
Bakelite Company
230 N. Michigan Blvd.
Chicago, Ill.

National Director

Leroy J. Swift
Jarrow Company
420 N. LaSalle St.
Chicago, Ill.

Members

Lyle S. Abbott
4505 N. Keeler Ave.
Chicago 30, Ill.
(Chicago Die Mold Mfg.)

Raymond M. Alden
Globe Imperial Corp.
2025 Kishwaukee St.
Rockford, Ill.

Paul Alexander
The Visking Corp.
6733 W. 65th St.
Chicago, Ill.

Dale Amos
Amos Molded Plastics
Edinburg, Ind.

Leclare H. Amrine
532 Roscoe St.
Chicago 13, Ill.
(Imperial Molded Prod.)

Roscoe S. Amrine
Imperial Mold. Prod. Corp.
2925 W. Harrison St.
Chicago 12, Ill.

E. L. Anderson
Globe Imperial Corp.
2025 Kishwaukee
Rockford, Ill.

George C. Anderson
Charles Zaph & Co.
2073 N. Southport Ave.
Chicago, Ill.

Lloyd W. Anderson
Chicago Molded Prod. Corp.
1020 N. Kolmar Ave.
Chicago 51, Ill.

Ralph M. Anfinsen
Anfinsen Plas. Mold., Inc.
P.O. Box 408
New St. Road
Aurora, Ill.

Maurice H. Arveson
Indoil Chemical Co.
910 S. Michigan Ave.
Chicago 80, Ill.

B. D. Ashbaugh
Hydraulic Press Mfg. Co.
3058 W. Peterson Ave.
Chicago 45, Ill.

Anthony F. Aull
5320 Carol
Skokie, Ill.
(Nu-Dell Plastics Corp.)

Arthur J. Bachner
Midland Die & Eng. Co.
1800 W. Berenice Ave.
Chicago 13, Ill.

Edward F. Bachner, Jr.
Chicago Molded Prod. Corp.
1020 N. Kolmar Ave.
Chicago, Ill.

G. L. Bachner
Powdered Metal Products
9335 W. Belmont Ave.
Franklin Park, Ill.

William G. Bacon
Gits Molding Co.
4600 W. Huron St.
Chicago, Ill.

John B. Ballard
Sterling, Inc.
3758 N. Holton St.
Milwaukee 12, Wisc.

Edward W. Bastian
Catalin Corp. of America
221 North LaSalle St.
Chicago 1, Ill.

Ray C. Bauspies
Midwest Mold. & Mfg. Co.
4630 W. Fullerton Ave.
Chicago 39, Ill.

E. H. Beach
Plastics Engr. Co., Inc.
1607 Geele Ave.
Sheboygan, Wisc.

Charles Freemont Beckman
Gen. American Trans. Corp.
135 South LaSalle Street.
Chicago 90, Ill.

Byron W. Bender
U.S. Rubber—Chicago
Die Mold Div.
4001 Wrightwood Avenue
Chicago, Ill.

John T. Bent
Tennessee Eastman Corp.
360 N. Michigan Ave.
Chicago 1, Ill.

Richard S. Bezark
Superior Plastics Div.
Commonwealth Plastics
426 N. Oakley Blvd.
Chicago, Ill.

Stanley R. Blackwell
Quality Molding Co.
4541 W. Diversy Place
Chicago 39, Ill.

Elbert J. Boebinger
The Richardson Co.
2700 Lake St.
Melrose Park, Ill.

Herman William Brandt
Plastic Molded Prod. Co.
6044 N. Pulaski
Chicago 30, Ill.

Charles H. Brittenham
Square D Company
Peru, Ind.

Ralph T. Brotz
Plastics Engr. Co., Inc.
1607 Geele Ave.
Sheboygan, Wisc.

Roman C. Brotz
Plastics Engr. Co., Inc.
1607 Geele Ave.
Sheboygan, Wisc.

William Frederick Brown
Bakelite Company
230 N. Michigan Ave.
Chicago, Ill.

Milton L. Brummer
3966 N. Merrimac Ave.
Chicago 34, Ill.
(Rohm & Haas Co.)

Albert Bryan
Auburn Button Works
9 S. Clinton St. Rm. 704
Chicago 6, Ill.

Charles Buckman
7348 Ridge Ave.
Chicago, Ill.
(Eclipse Mfg. Co.)

Robert D. Budlong
Room 1112
333 N. Michigan Ave.
Chicago, Ill.

A. E. Buerosse
Taycheedah, Wisc.
(Sevison Magneto Engr.)

William David Caddell
8409 N. Monticello
Skokie, Ill.
(Wm. Caddell Assoc.)

J. F. Calef
Automatic Elec. Co.
1033 W. Van Buren St.
Chicago 7, Ill.

Robert H. Campbell
919 N. Michigan Ave.
Chicago 11, Ill.
(R. H. Campbell Co.)

Henry C. Carlson
Koppers Co., Inc.
122 S. Michigan Ave.
Chicago 3, Ill.

Donald D. Chew
Coffield-Stephens Assoc.
7720 N. Sheridan Road
Chicago 26, Ill.

Thomas H. Cleavenger
Anesite Co.
2112 Southport Ave.
Chicago 41, Ill.

Donald J. Cochran
4457 W. Jackson Blvd.
Chicago, Ill.

James M. Connors
Breskin Publishing Co.
620 N. Michigan Ave.
Chicago 11, Ill.

Warren F. Cooper, Jr.
Tennessee Eastman Corp.
360 N. Michigan Ave.
Chicago 1, Ill.

Winfield T. Cooper
Bakelite Company
230 N. Michigan Ave.
Chicago 1, Ill.

E. H. Froisant
Synthane Corp.
Morton Grove, Ill.

Edward W. Crowin
(No Address)

Raymond E. Daniels, Jr.
Dow Chemical Co.
135 S. LaSalle St.
Chicago 3, Ill.

Charles A. Dassing
Bakelite Company
230 N. Michigan Ave.
Chicago 1, Ill.

Robert E. Davis
106 South Blanchard St.
Wheaton, Ill.
(Watson-Stillman)

Frank D. Deli
Amos Molded Plastics
1005 W. Belmont Ave.
Chicago 13, Ill.

D. L. Dondy
2413 W. Farragut Ave.
Chicago, Ill.
(Monsanto Chemical Co.)

H. A. Doolittle
Stimsonite Plastics Div.
Amer. Gas Accumulator
3445 N. Kimball
Chicago 18, Ill.

George G. Doughty
4506 Belmont Rd.
Downers Grove, Ill.
(Improved Paper Mach. Corp.)

Ernest F. Dourlet
Rohm & Haas Co.
222 N. Michigan Ave.
Chicago 1, Ill.

Lloyd P. Dunn
5469 W. Hirsch St.
Chicago, Ill.
(Superior Plastics, Inc.)

P. J. Dunn, Jr.
Celanese Corp. of America
1514 Merchandise Mart
Chicago 54, Ill.

Everett E. Eckenbeck
2730 Thayer St.
Evanston, Ill.
(Midwest Plas. Prod. Co.)

E. E. Eckenbeck, Jr.
2730 Thayer St.
Evanston, Ill.
(Midwest Plas. Prod. Co.)

Joseph Edelston
1335 Astor Street
Chicago 10, Ill.
(Superior Plastics, Inc.)

D. R. Edgerton
Lindberg Steel Treating Co.
220 N. Laflin St.
Chicago 7, Ill.

Stefan T. Edlis
General Die Mold Co.
548 N. Sacramento Blvd.
Chicago, Ill.

Hugo S. Erickson
Industrial Mold. Prods. Co.
5201 Avondale Ave.
Chicago 30, Ill.

Walter L. Erley
18350 Kedzie St.
Homewood, Ill.
(Rogers Corp.)

Luther J. Evans
Mayfair Mold. Prods. Corp.
4440 N. Elston Ave.
Chicago 30, Ill.

Robert A. Feid
B & T Plastic Finishing Co.
6330 N. Clark St.
Chicago, Ill.

James G. Felsenthal
G. Felsenthal & Sons, Inc.
4100 W. Grand Ave.
Chicago 51, Ill.

James Ferguson
Plaskon Div.
L-O-F Glass Co.
400 W. Madison St.
Chicago 6, Ill.

John H. Field, Jr.
140 W. Main St.
Oak Harbor, Ohio
(General Electric)

Paul E. Fina
314 Herrick
Riverside, Ill.
(Fiberite Corp.)

Franklin L. Fine
Rohm & Haas Co.
224 N. Michigan Ave.
Chicago 1, Ill.

Andrew J. Fischer
4554 Broadway
Chicago, Ill.
(Andrew Fischer Assoc.)

Henry W. Fishkin
Ferro Corp.
336 N. Central Ave.
Chicago 44, Ill.

Louis Fishman
Fishman Plastics Co.
6423 S. Wentworth
Chicago 21, Ill.

Paul B. Ford
7 East Huron St.
Chicago 11, Ill.
(Bauder, Baker, Inc.)

Ernest Forst
2443 Gunnison St.
Chicago 25, Ill.

Cyril B. Fox, Jr.
Tennessee Eastman Corp.
360 N. Michigan Ave.
Chicago, Ill.

Robert J. Fox
Detroit Mold Engr. Co.
5315 W. Lake St.
Chicago 44, Ill.

Hans Freeman
Creative Plastic Engr. Co.
1912 N. Milwaukee Ave.
Chicago 47, Ill.

Theodore Friberg
National Lock Co.
1902 Seventh St.
Rockford, Ill.

Harold E. Froberg
Colonial Kolonite Co.
2212 W. Armitage Ave.
Chicago 47, Ill.

Lee Funk
627 Surf St.
Chicago, Ill.
(G. Felsenthal & Sons, Inc.)

Erik Furholmen
70 S. Grace St.
Lombard, Ill.
(Furnel, Inc.)

Harry W. Gebhard
5129 W. Devon Ave.
Chicago 30, Ill.
(Harry W. Gebhard Co.)

Arch M. Gibson
5718 S. Kenwood Ave.
Chicago 37, Ill.
(Plastics Engr. Co.)

Joseph A. Gits
1423 Bonnie Brae
River Forest, Ill.
(Gits Molding Corp.)

Jules P. Gits
1410 Clinton Place
River Forest, Ill.
(Gits Molding Corp.)

Gordon W. Glaescher
Natl. Vulcanized Fibre Co.
2808 W. Lake St.
Chicago 12, Ill.

John G. Goldman
5021 Dorchester Ave.
Chicago 15, Ill.
(G. Felsenthal & Sons, Inc.)

Robert Kenneth Gossett
Gossett & Hill Co.
3120 N. Cicero Ave.
Chicago 41, Ill.

William E. Green
Owens Illinois Glass Co.
P.O. Box 409
St. Charles, Ill.

Frank E. Hadley
Catalin Corp. of America
221 N. LaSalle St.
Chicago, Ill.

Arnold T. Hamala
Pullman Std. Car Mfg. Co.
1414 Field St.
Hammond, Ind.

Russell D. Hanna
Hercules Powder Co.
322 S. Michigan
Chicago 4, Ill.

Richard J. Hansel
Superior Plastics, Inc.
426 N. Oakley Blvd.
Chicago 12, Ill.

William A. Hart
3807 S. Wesley Ave.
Berwyn, Ill.
(Amer. Std. Prods. Co.)

Daniel C. Heck
943 Webster Lane
Des Plaines, Ill.
(Crane Co.)

Ervin R. Heck
200 E. Dewey Ave.
North Lake, Ill.

S. A. Heenan
Stimsonite Plastics Div.
Amer. Gas Accumulator Co.
3445 N. Kimball
Chicago 18, Ill.

L. B. Heller
Sunlite Mfg. Co.
317 S. First St.
Milwaukee 4, Wisc.

S. Stewart Helliwell
F. J. Stokes Machine Co.
20 N. Wacker Dr.
Chicago 6, Ill.

Frank L. Hemingway
Naugatuck Chemical Div.
2638 N. Pulaski Rd.
Chicago, Ill.

James L. Henning
Plano Molding Co.
Plano, Ill.

Charles C. Henry
6705 Caldwell Ave.
Chicago 30, Ill.
(Chicago Die Mold Mfg.)

Clarence A. Herbst
Resinoid Engr. Corp.
3445 Howard St.
Skokie, Ill.

David E. Herrera
Greer Shop Training, Inc.
2230 S. Michigan Ave.
Chicago 16, Ill.

William L. Hess
Anesite Company
2112 Southport Ave.
Chicago 14, Ill.

Harry O. Hill
2601 Glenview Rd.
Glenview, Ill.
(Celanese Corp. of Amer.)

Carl E. Holmes
Camfield Mfg. Co.
718 N. Seventh St.
Grand Haven, Mich.

J. L. Howie, Jr.
The Grigoleit Co.
740 E. North St.
Decatur, Ill.

Robert F. Hrudka
Bakelite Company
230 N. Michigan Ave.
Chicago 1, Ill.

Kenneth C. Huebner
Glynn-Johnson Corp.
4422 N. Ravenswood Ave.
Chicago 40, Ill.

Harold D. Hulterstrum
Flambeau Plastics Corp.
501 Seventh Street
Baraboo, Wisc.

Charles K. Hunt
307 W. 6th St.
Hinsdale, Ill.
(University of Illinois)

James E. Johnston
Chicago Mold. Prods. Corp.
1020 N. Kolmar Ave.
Chicago 51, Ill.

Charles E. Jones
189 W. Madison St.
Chicago 2, Ill.
(Chas. E. Jones & Assoc.)

E. William Kalb
261 Parker Drive
Mount Lebanon, Pa.
(Firth Sterling Steel & Carbide Corp.)

Charles Karels
6457 N. Damen Ave.
Chicago 45, Ill.)
(Service Plastics, Inc.)

Thomas R. Karels
B & T Plastic Finishing Co.
6330 N. Clark St.
Chicago 26, Ill.

J. C. Kazimier
Amos Molded Products
405 S. Kyle St.
Edinburg, Ind.

William L. Kelly
2240 W. 115th St.
Chicago 43, Ill.
(Plas-Steel Products)

Jacob A. Kempf
Steel Mill Prod. Corp.
176 W. Adams St.
Chicago 3, Ill.

Earl Rayner Keown
6643 Tower Circle
Chicago 30, Ill.
(Santay Corp.)

W. F. Kerseg
203 Hillcrest Rd.
Ogden Dunes
Gary, Ind.

Roy W. Kinsey, Jr.
Victory Mfg. Co.
1722 W. Arcade Pl.
Chicago, Ill.

Henry C. Klein, Jr.
Sunlite Mfg. Co.
317 South 1st St.
Milwaukee, Wisc.

Irving N. Klein
H. Muehlstein & Co.
4237 W. 42nd Place
Chicago 32, Ill.

William Kosobud
Detroit Mold Engr. Co.
5315 W. Lake St.
Chicago, Ill.

Eric B. Kramer
Superior Plastics, Inc.
426 N. Oakley Blvd.
Chicago, Ill.

A. (Louie) Krakau
5123 N. Newcastle Ave.
Chicago 31, Ill.
(Acme Scientific Co.)

J. H. Krehbiel
Molex Products Co.
400 N. Harding Ave.
Chicago 24, Ill.

Gordon LaBounty
Fishman Plastics Co.
6423 S. Wentworth Ave.
Chicago 21, Ill.

William F. Lange, Jr.
1908 Indiana Ave.
LaPorte, Ind.
(Plastics Service Corp.)

Allan L. Lasser
Tower Oil Company
111 N. Canal
Chicago 6, Ill.

Oscar Lee
5140 Kimbark
Chicago, Ill.
(Oscar Lee Co.)

Carl Levin
Arcage Plas. Engr. Co., Inc.
1802 W. Berenice Ave.
Chicago 13, Ill.

Carl J. Lind
Lind Plastic Prods., Inc.
6900 N. Central Park Ave.
Lincolnwood, Ill.

Ted N. Lind, Jr.
Lind Plastic Products, Inc.
6900 N. Central Park
Lincolnwood, Ill.

Fred W. Lindahl
Nixon Nitration Works
500 N. Dearborn
Chicago, Ill.

Richard Joseph Linehan
Continental Plastics Corp.
308 W. Erie St.
Chicago, Ill.

Robert W. Linehan
Continental Plastics Corp.
308 W. Erie St.
Chicago 10, Ill.

Walter B. Longacre
2214 Franklin St.
Manitowac, Wisc.
(Bakelite Co.)

John C. Louer
1837 S. 19th Ave.
Maywood, Ill.
(Elmer E. Mills Corp.)

Arthur Fred Lovgren
6726 Schreiber Ave.
Chicago 31, Ill.
(Carlson & Selman)

John Mack
6227 N. Broadway
Chicago 40, Ill.
(John Mack & Son Moulded Prod., Inc.)

Otto Makert
Santay Corp.
351 N. Pulaski Rd.
Chicago 24, Ill.

O. W. Marsh
613 Ridge Ave.
Greencastle, Ind.

C. F. Massopust
Gen. Amer. Trans. Corp.
4405 Euclid Ave.
East Chicago, Ind.

Theobald M. Mathews, Jr.
T. M. Mathews, Company
P.O. Box 133
Plymouth, Wisc.

William A. McCallum
Luminescent Plastics Corp.
201 N. Wells St.
Chicago, Ill.

Clarence McCormick
6899 N. Hiawatha
Chicago 30, Ill.
(Superior Plastics)

W. E. McCormish
L. Albert & Son
120 S. LaSalle St.
Chicago 3, Ill.

John E. McKenzie
Tennessee Eastman Corp.
360 N. Michigan Ave.
Chicago 1, Ill.

R. J. Meisel
Gen. Amer. Trans. Corp.
4405 Euclid Ave.
East Chicago, Ind.

Sidney Melnick
G. Felsenthal & Sons, Inc.
4100 W. Grand Ave.
Chicago 5, Ill.

Maurice Meltzer
6052 N. Troy
Chicago 45, Ill.
(Service Plastics, Inc.)

Stanley R. Melvin
Monsanto Chemical Co.
Rm. 1104 Merch. Mart Bldg.
Chicago 54, Ill.

Nels A. Miller
129 S. Harvey Ave.
Oak Park, Ill.

Victor A. Miller
Plastic Masters, Inc.
New Buffalo, Mich.

Elmer E. Mills
Elmer E. Mills Corp.
2930 N. Ashland Ave.
Chicago 13, Ill.

J. Franklin Moore
3925 N. Merrimac Ave.
Chicago 34, Ill.
(Rohm & Haas Co.)

Robert H. Morehouse
Kent Plastics Corp.
1528 N. Fulton
Evansville 10, Ind.

John B. Mosak
Nu-Dell Mfg. Co.
2250 N. Pulaski
Chicago, Ill.

Kenneth E. Munro
1112 Potter Road
Park Ridge, Ill.
(Federal Tool Corp.)

Carl Nagy
General Die & Mold Co.
548 N. Sacramento Blvd.
Chicago, Ill.

Julius J. Nagy
Sandee Mfg. Company
5050 Foster Avenue
Chicago 30, Ill.

Arlo D. Nease
A & O Plastics Co.
1313 Warren Ave.
Downers Grove, Ill.

A. W. Nelson
Rada Products Co.
2911 Carroll Ave.
Chicago 12, Ill.

Melven V. Nelson
Autopoint Company
1801 Foster Ave.
Chicago 40, Ill.

John Neuman
Nu Mfg. Co.
1359 W. North Ave.
Chicago 22, Ill.

Erik R. Nielsen
7223 Sheridan Rd.
Chicago 26, Ill.
(Armour Research Found.)

J. O. Nissen
Monsanto Chemical Co.
Rm. 1104
Merchandise Mart Bldg.
Chicago 6, Ill.

R. J. Olson
Federal Tool Corp.
3600 W. Pratt Blvd.
Chicago 45, Ill.

T. R. Orme
Bakelite Company
230 N. Michigan Ave.
Chicago 1, Ill.

Julius W. Palen
45 Owana Ave.
St. Clair, Mich.
(Std. Products Co.)

John Pannhausen
315 S. Oak Park Ave.
Oak Park, Ill.
(Amer. Phenolic Corp.)

Harry J. Perzan
Dot-Lee Tool & Engr.
2031 N. Parkside Ave.
Chicago 39, Ill.

Milton O. Peterson
Micro-Switch Div.
Minneapolis Honeywell Reg. Co.
Freeport, Ill.

Raymond F. Phillips
3425 N. Lowell Ave.
Chicago 41, Ill.
(Chi. Molded Prod. Corp.)

R. F. Pierce
2236 Park St.
Terre Haute, Ind.
(Visking Corp.)

Robert D. Plowright
609 Washington Blvd.
Oak Park, Ill.

N. H. Porte
Gen. Amer. Trans. Corp.
135 LaSalle St.
Chicago, Ill.

M. L. Poust
Fabri-Kal Corp.
242 E. Kalamazoo Ave.
Kalamazoo, Mich.

Thomas A. Prepelica
Midwest Mold. & Mfg. Co.
4630 W. Fullerton Ave.
Chicago, Ill.

Melvin Proball
965 S. Harvard Ave.
Villa Park, Ill.
(Jas. O'Sullivan & Assoc.)

Harold Bruce Putsey
5416 W. 24th Pl.
Cicero, Ill.
(Reed-Prentice Co.)

Arthur J. Queisser
Queisser Bros.
110 E. Ninth St.
Indianapolis, Ind.

John L. Rackow
Eclipse Mfg. Co.
P.O. Box 338
Lake Zurich, Ill.

George A. Rademacher
Georges Mfg. Co.
9830 W. Franklin Ave.
Franklin Park, Ill.

Roy D. Raymond
Lakone Company
500 Rathbone Ave.
Aurora, Ill.

Jean Otis Reinecke
Reinecke & Associates
720 N. Michigan Ave.
Chicago 11, Ill.

Paul H. Rhodes
Kent Plastics Corp.
1528 N. Fulton Ave.
Evansville 10, Ind.

T. E. Richards
Midwest Mold. & Mfg. Co.
4630 W. Fullerton Ave.
Chicago 39, Ill.

H. L. Roessler
Roessler Stamp & Engraving Co.
118 Brook St.
Elgin, Ill.

Edward Rogan
Rogan Brothers
8025-33 N. Monticello Ave.
Skokie, Ill.

Julian J. Rogan
Rogan Brothers
8025-33 N. Monticello Ave.
Skokie, Ill.

Lee M. Rogers
4903 N. Wolcott Ave.
Chicago 40, Ill.
(Farley & Loetscher Mfg. Co.)

Howard A. Rosley
E. I. duPont deNemours
7 S. Dearborn St.
Chicago, Ill.

Kenneth A. Rouzer
18452 Roy Street
Lansing, Ill.
(Gen. Amer. Trans. Corp.)

Leif A. Rowe
Wm. Thoresen
5035 Wabansia Ave.
Chicago 47, Ill.

George Roxburgh
Celanese Corp. of America
1514 Merchandise Mart
Chicago 54, Ill.

Francis M. Ruggles
M. W. Kellogg Co.
79 E. Adams St.
Chicago 3, Ill.

Nels E. Rundgren
Metalmaster, Inc.
5292 Northwest Highway
Chicago 30, Ill.

Gordon A. Ruschman
Richardson Co.
27th Ave. & Lake St.
Melrose Park, Ill.

Albert Safianoff
4048 W. 58th Place
Chicago 29, Ill.
(Victory Mfg. Co.)

Philip H. Sanders
Sobenite, Inc.
1026 W. King St.
South Bend, Ind.

M. R. Sangerman
Nu-Dell Plastics Corp.
2250 N. Pulaski Rd.
Chicago 39, Ill.

Harry Scheer
320 S. Plymouth Court
Chicago 4, Ill.
(Superior Plastics)

Charles Schiff
Breyer Molding Co.
2536 W. Lake St.
Chicago 12, Ill.

Joseph J. Schmidt
9627 S. Oglesby Ave.
Chicago 17, Ill.
(Lester-Phoenix, Inc.)

William Schmidt
Autopoint Co.
1801 Foster Ave.
Chicago 40, Ill.

Carl Edward Schmitz
Crane Packing Co.
1800 Cuyler Ave.
Chicago 13, Ill.

Roy L. Schramm
5840 W. Foster Avenue
Chicago 30, Ill.

Richard W. Schreck
Watson Stillman Co.
Room 1612-Builders Bldg.
228 N. LaSalle St.
Chicago, Ill.

E. K. Schroeter
Presco Plastics
P.O. Box 875
Milwaukee, Wisc.

Arthur J. Schultz
35 S. Cook St.
Denver, Colo.

John L. Sekowski
7019 W. Cornelia Ave.
Chicago 34, Ill.
(Midland Die & Engr. Co.)

M. A. Self
515-138th St.
Hammond, Ind.
(Bee Chemical Co.)

Victor Edward Serrell
Bakelite Co.
230 N. Michigan Blvd.
Chicago 1, Ill.

Edward Singer
Victory Mfg. Co.
1722-24 W. Arcade Place
Chicago 12, Ill.

Owen E. Skelton
Modern Plastic Corp.
N. Shore Drive
Benton Harbor, Mich.

Eugene Slingluff
Sunlite Mfg. Co.
317 S. First St.
Milwaukee, Wisc.

Harry F. Slottag
G. Felsenthal & Sons
4110 W. Grand Ave.
Chicago, Ill.

Lawrence F. Smith
9040 Marmora
Morton Grove, Ill.
(Chi. Molded Prods. Corp.)

Richard P. Smith
Bakelite Co.
230 N. Michigan Ave.
Chicago 1, Ill.

Richard H. Sorrell
719 Belle Forte
Oak Park, Ill.
(Superior Plastics Corp.)

Harvey H. Sparhawk
L. Albert & Son
120 S. LaSalle St.
Chicago, Ill.

Sidney G. Spivak
Chicago Mold. Prods. Corp
1020 N. Kolmar Ave.
Chicago 51, Ill.

Paul Spodnyak
Uptown Tool Works, Inc.
4632 Fullerton Ave.
Chicago 39, Ill.

Robert S. Stephens
Coffield-Stephens Assoc.
7720 N. Sheridan Rd.
Chicago, Ill.

Walter H. Stoeffhaas
Colonial Kolonite Co.
2212 W. Armitage Ave.
Chicago 47, Ill.

Sam J. Stone
Breyer Molding Co.
2536 W. Lake St.
Chicago 12, Ill.

Clarence H. Stowe
Stowe Plastic Prods.
3118 W. Atkinson Ave.
Milwaukee, Wisc.

L. J. Swift
Box 314 Route 1
Barrington, Ill.
(Jarrow Products)

Elmer D. Szantay
Sandee Mfg. Co.
5050 Foster Ave.
Chicago 30, Ill.

Violet Szantay
Santay Corp.
351 N. Crawford Ave.
Chicago 24, Ill.

David W. Terrill
127 N. Ashland Ave.
Palatine, Ill.
(C. E. Niehoff & Co.)

Jack W. Thomsen
823 S. Kensington Ave.
LaGrange, Ill.
(Richardson Co.)

Lawrence H. Tickner
Autopoint Co.
1801 W. Foster Ave.
Chicago 40, Ill.

Paul C. Tietz
Tietz & Baur Plastics
Lake & Roy St.
Melrose Park, Ill.

James D. Tribble
Howard Plastics, Inc.
2600 Grand Ave.
Kansas City 8, Mo.

John Vellinga
Elgin Molded Plastics Co.
909 Grace Street
Elgin, Ill.

A. H. Voss
5859 N. Oxford Dr.
Indianapolis, Ind.
(Western Elec. Co.)

Warren P. Wahl
Wahl Clipper Corp.
407 E. Third St.
Sterling, Ill.

George T. Walker, Jr.
Plaskon Div.
L-O-F Glass Co.
400 W. Madison St.
Chicago, Ill.

C. R. Webster
Northern Plas. Pro. Co.
P.O. Box 428
Midland, Mich.

Ed Weichmann
Cambridge Molded Plastics
732 N. Michigan Ave.
Chicago 11, Ill.

W. A. Werner
Werner Mfg. Co.
P.O. Box 149
Brookfield, Ill.

Paul A. West
Sterling, Inc.
3738 N. Holton St.
Milwaukee 12, Wisc.

W. A. Weymouth
1334 E. State St.
Rockford, Ill.
(National Lock Co.)

Willard W. Wheeler, Jr.
1340 N. Dearborn Apt. 3-C
Chicago 10, Ill.
(Owens-Corning Fiberglas)

C. C. Whitacre
Midwest Plastic Prods. Co.
1801 Chicago Rd.
Chicago Heights, Ill.

L. J. Wieschhaus
American Wheelabrator & Equip. Corp.
Mishawaka, Ind.

James R. Wilkinson
2920 E. Hampshire Ave.
Chicago, Ill.
(Bakelite Co.)

H. A. Winkelmann
Dryden Rubber Co.
1014 S. Kildare Ave.
Chicago, Ill.

Quentin Winter
Owens-Illinois Glass Co.
St. Charles, Ill.

E. O. Wokeck
2111 Langly St.
St. Joseph, Mich.
(Bangor Plastics, Inc.)

Edwin E. Woodman
Durez Plas. & Chems., Inc.
221 N. LaSalle St.
Chicago, Ill.

William K. Woodruff
Celanese Corp. of America
1514 Merchandise Mart
Chicago, Ill.

Thomas H. Wright, Jr.
455 Homestead Rd.
La Grange, Ill.
(G. Felsenthal & Sons, Inc.)

Val Wright
Modern Plastics
101 E. Ontario St.
Chicago 11, Ill.

William W. Wright
Service Plastics, Inc.
1120 W. Jackson Bl.
Chicago 7, Ill.

Oscar B. Yorker
Yorker & Sons, Inc.
4481 Washington St.
Denver, Colo.

Ernest H. Young
Koppers Co., Inc.
122 S. Michigan Ave.
Chicago 3, Ill.

Justin Zenner
823 W. Waveland Ave.
Chicago 13, Ill.
(Justin Zenner Co.)

Joseph Ziegler
Ziegler's Welding Works
1414 St. Charles Rd.
Maywood, Ill.

CLEVELAND

OFFICERS

President

Frank Martin
The Hoover Co.
North Canton, Ohio

Vice-President

David J. Sloane
Lester Engineering Co.
2711 Church Ave.
Cleveland, Ohio

Secretary

Bernard J. Wulf
1376 Edwards Ave.
Lakewood 7, Ohio
(Plastic Engineering, Inc.)

Treasurer

Richard Rybak
R&K Tool & Die Co.
3891 W. 150th St.
Cleveland, Ohio

National Director

G. E. Field
B. F. Goodrich Chem. Co.
324 Rose Building
Cleveland, Ohio

Members

Emerson H. Alexander
The Vlchek Tool Co.
3001 E. 87th St.
Cleveland 4, Ohio

Wayne F. Anderson
B. F. Goodrich Chem. Co.
324 Rose Building
Cleveland, Ohio

Philip J. Arnoff
2604 Fenwick Rd.
University Hts. 18, Ohio
(Trans. Specialties Corp.)

John E. Beaumont
32 Coolidge Hill Rd.
Cambridge, Mass.
(Gen. Tire & Rubber Co.)

D. F. Behney
Harwick Std. Chem. Co.
60 S. Seiberling St.
Akron 5, Ohio

Albert Belshaw
Kool Vent of Michigan, Inc.
8007 Joy Road
Detroit 51, Michigan

Herbert C. Bendel
Naugatuck Chemical Div.
247 E. Exchange St.
Akron, Ohio

William J. Bergin
Rt. #3
Hudson, Ohio
(Carter Products)

D. V. Blatter
Natl. Rubber Mach. Co.
47 W. Exchange St.
Akron, Ohio

Harry E. Bollinger
Lester-Phoenix, Inc.
2711 Church Ave.
Cleveland 13, Ohio

George W. Bricker, Jr.
Robt. Heller & Assoc.
1568 Union Commerce Bldg.
Cleveland 14, Ohio

Lester W. Brock
The Caldwell Co.
P.O. Box 6, E. Akron Sta.
Akron 5, Ohio

H. E. Buecken
167 White Pond Drive
Akron 13, Ohio
(Natl. Rubber Mach. Co.)

Donald Ray Butler
RFD #2
Maple Orchard Farms
Burton, Ohio
(Vlchek Tool Co.)

Sylvester S. Caldwell
The Caldwell Co.
P.O. Box 6, E. Akron Sta.
Akron 5, Ohio

G. E. Calhoun
Spaulding Fibre Co., Inc.
1213 W. Third St.
Cleveland, Ohio

A. Edward Campi
International Molded Plastics, Inc.
4387 W. 35th St.
Cleveland 9, Ohio

Llewellyn S. Cawrse
Ackerman Plas. Molding
1290 E. 53rd St.
Cleveland 14, Ohio

V. B. Cetrone
Packard Elec. Div. G.M.C.
Dana Avenue
Warren, Ohio

Charles A. Clark
B. F. Goodrich Chem. Co.
324 Rose Building
Cleveland 15, Ohio

William F. Condon
13769 Cedar Rd. Apt. 101
Cleveland 18, Ohio
(Rohm & Haas)

Robert L. Cozens
1298 Idlewood Ave.
Lakewood 7, Ohio
(R&K Tool & Die Co.)

Sherman M. Crawford
132 Edgewood Drive
Berea, Ohio
(DME Corporation)

Garry B. Curtiss
Synthetic Prods. Co.
1636 Wayside Rd.
Cleveland 12, Ohio

Robert G. Dailey
Standard Prods. Co.
2130 W. 110th St.
Cleveland, Ohio

Harry H. Davidson
1243 N. Main St.
Akron 10, Ohio
(Goodyear Tire & Rub. Co.)

Robert L. Davidson
18203 Detroit Ave.
Lakewood, Ohio
(Owens-Corning Fiberglas)

Robert L. Devies
Ridgewood Drive
Middlefield, Ohio
(Vlchek Tool Co.)

Edward J. Doolittle
Lima-Hamilton Corp.
2507 Terminal Tower Bldg.
Cleveland 13, Ohio

Douglas G. Eaton
Reed Prentice Corp.
Penton Bldg.
1213 W. Third Ave.
Cleveland 13, Ohio

M. A. Fate
B. F. Goodrich Co.
R.D. #1
Marietta, Ohio

Parmely T. Ferrie
Firestone Tire & Rubber Co.
1200 Firestone Parkway
Akron 17, Ohio

George E. Field
B. F. Goodrich Chem. Co.
324 Rose Bldg.
Cleveland, Ohio

George W. Flanagan
B. F. Goodrich Chem. Co.
324 Rose Bldg.
Cleveland, Ohio

Roger J. Folino
Consolidated Iron & Steel Mfg.
1290 E. 53rd St.
Cleveland 14, Ohio

G. A. Fowles
B. F. Goodrich Chem. Co.
324 Rose Bldg.
Cleveland, Ohio

William P. Frakes
2539 Maitland
Cuyahoga Falls, Ohio
(Goodyear Tire & Rub. Co.)

Louis T. Friedman
151 E. 233rd St.
Euclid 17, Ohio

L. R. Garson
Garson Company
393 Riviera Ave.
Golden Beach, Fla.

Dale C. Gerber
The Hoover Co.
North Canton, Ohio

C. C. Gildersleeve
30314 Westlake Rd.
Bay Village, Ohio
(Precision Molded Plastics)

Raymond M. Gilmore
Vlchek Tool Co.
3001 E. 87th St.
Cleveland, Ohio

Elizabeth J. Gooding
Geauga Industries Co., Inc.
Middlefield, Ohio

Howard E. Goodyear
Goodyear Tool & Die Co.
7324 Associate
Cleveland 9, Ohio

Albert Gordon
Cosmos Plastics Co.
3239 W. 14th St.
Cleveland 9, Ohio

George V. Goulder
International Molded Plastics, Inc.
4387 W. 35th St.
Cleveland 9, Ohio

Richard J. Goulder
International Molded Plastics, Inc.
4387 W. 35th St.
Cleveland 9, Ohio

George E. Griffin
Harwick Std. Chem. Co.
60 S. Seiberling St.
Akron, Ohio

Zachary N. Harris
National Rubber Mach. Co.
47 W. Exchange Street
Akron, Ohio

Edward J. Haskins
Zenith Plastics Co.
1009 Rockwell Ave.
Cleveland 14, Ohio

David C. Hawk
B. F. Goodrich Chem. Co.
P.O. Box 122
Avon Lake, Ohio

F. C. Hays
The Chemical Rubber Co.
2310 Superior Ave.
Cleveland, Ohio

Robert M. Hershey
711 Woodrow Ave.
North Canton, Ohio
(The Hoover Co.)

Stephen D. Hiltebrandt, Jr.
General Industries Co.
Olive & Taylor Sts.
Elyria, Ohio

Paul L. Hobbins
Continental Can Co.
1721 N.B.C. Building
Cleveland 14, Ohio

Howard C. Holbury
Johnson Plastic Corp.
Bainbridge Rd. Box 268
Chagrin Falls, Ohio

J. R. Hoover
B. F. Goodrich Chem. Co.
324 Rose Bldg.
Cleveland 15, Ohio

S. W. Hubbard, Jr.
Allied Resins, Inc.
Commerce Street
Conneaut, Ohio

Richard L. Huber
Hercules Powder Co.
865 Union Commerce Bldg.
Cleveland 14, Ohio

Leland R. Hunter
Koppers Co., Inc.
2332 Koppers Bldg.
Pittsburgh 19, Pa.

Orville E. Isenburg
B. F. Goodrich Chem. Co.
324 Rose Bldg.
Cleveland 15, Ohio

Gordon M. Juredine
Harshaw Chemical Co.
1945 E. 97th St.
Cleveland 6, Ohio

Herbert S. Karch
2954 Overlook Rd.
Silver Lake
Cuyahoga Falls, Ohio

Kenneth M. Keller
Kelle Products, Inc.
7039 Superior Ave.
Cleveland 3, Ohio

Armin G. Kessler
Farrel-Birmingham Co.
2710 First National Tower
Akron 8, Ohio

Joseph W. Kneier
1524 Sheridan Rd.
South Euclid, Ohio

Laurence G. Kraus
Smith-Phoenix Mfg. Co.
7500 Stanton Ave.
Cleveland 4, Ohio

William A. Krebs
513 Summit St.
Ravenna, Ohio
(Samuel Moore & Co.)

Elmer J. Krizek
12601 Craven Ave.
Cleveland, Ohio
(House of Plastics)

Heinz Kroeger
14112 Gramatan Ave.
Cleveland 11, Ohio
(R&K Tool & Die Co.)

Robert E. Lally
Ferro Chem. Corp.
450 Krick Rd.
Bedford, Ohio

Gregg C. Langermeier
Pioneer Mold Co.
9227 Clinton Rd.
Cleveland 9, Ohio

Louis R. LeBras
Case Inst. of Technology
10900 Euclid Ave.
Cleveland 6, Ohio

Stanley Leonowich
General Industries Co.
Olive & Taylor Sts.
Elyria, Ohio

Carl F. Linn
The Watertown Mfg. Co.
858 Hanna Bldg.
Cleveland 15, Ohio

Sydney Lohman
15807 Eldamere
Cleveland, Ohio
(Lester Phoenix Co.)

Richard C. Lopez
H. Muehlstein Co., Inc.
250 Jewett St.
Akron, Ohio

Fred W. Luther
Consolidated Molded
Products Corp.
4500 Euclid Ave.
Cleveland 3, Ohio

William W. Lytle
Lytle Engr. Co.
4040 Mayfield Rd.
Cleveland 21, Ohio

Frank A. Martin
The Hoover Co.
North Canton, Ohio

W. D. Martin
12333 Chippewa Rd.
Brecksville, Ohio
(International Mold. Plas.)

William H. Martin
Magnetic Plastics Co.
1900 Euclid Bldg.
Cleveland, Ohio

Leonard J. Masterson
R&K Tool & Die Co.
3891 W. 150th St.
Cleveland 11, Ohio

Julius C. Mate
4093 E. 187th St.
Cleveland, Ohio
(Detroit Mold Engr. Co.)

Robert J. McCutcheon
1035 Emma Avenue
Akron 2, Ohio
(Goodyear Tire & Rubber)

Howard M. McDaniel
Tennessee Eastman Corp.
1604 Terminal Tower
Cleveland 13, Ohio

William B. McLain
Kusan, Inc.
2716 Franklin Rd.
Nashville, Tenn.

John O. McWilliams
Plastic Engineering, Inc.
8506 Lake Ave.
Cleveland 2, Ohio

William F. Miller, Jr.
Johnson Plastics Corp.
Box 268
Chagrin Falls, Ohio

William J. Miskella
Miskella Infra-Red Co.
7301 Grand Ave.
Cleveland 4, Ohio

G. A. Morrell
Formica Co.
523 Caxton Bldg.
Cleveland 15, Ohio

A. Reynolds Morse
Injection Molders Sup. Co.
621 Penton Bldg.
Cleveland 13, Ohio

Ernest P. Moslo
Moslo Mach'y Co. &
Mid-America Plastics, Inc.
2443 Prospect Ave.
Cleveland 15, Ohio

Ellsworth G. Munck
National Carbon Co.
Works Laboratory
1251 W. 76th St.
Cleveland, Ohio

Harold T. Murphy
Brush Development Co.
3361 Perkins Ave.
Cleveland 14, Ohio

Thomas S. Musgrave
6203 Pelham Dr.
Parma, Ohio
(Anderson Bolds, Inc.)

William H. Nicol
944 Chestnut Blvd.
Cuyahoga Falls, Ohio
(Goodyear Tire & Rub. Co.)

Raymond J. O'Hara
Ferro Chemical Corp.
Box 349
Bedford, Ohio

Herbert D. Oliver, Jr.
1259 Gordon Rd.
Cleveland 24, Ohio
(Tennessee Eastman Corp.)

Harold M. Olson
Harshaw Chemical Co.
1945 E. 97th St.
Cleveland, Ohio

M. W. Osborne, Jr.
B. F. Goodrich Chem. Co.
324 Rose Building
Cleveland 15, Ohio

Joseph W. Ostkar
3356 W. 131 St.
Cleveland 11, Ohio
(International Mold. Plas.)

C. E. Parks
B. F. Goodrich Chem. Co.
Avon Lake, Ohio

Willard J. Parsons
1037 N. Pasadena
Elyria, Ohio
(General Industries)

John W. Perloff
Diamond Alkali Company
P.O. Box 430
Painesville, Ohio

V. L. Peterson
Goodyear Tire & Rub. Co.
1144 E. Market St.
Akron, Ohio

Arthur H. Radde
Sajar Plastics, Inc.
P.O. Box 366
Middlefield, Ohio

John F. Rampe
Rampe Mfg. Co.
3320 St. Clair Ave.
Cleveland 14, Ohio

Edgar O. Redwine
B. F. Goodrich Chem. Co.
324 Rose Building
Cleveland 15, Ohio

Joseph J. Reichel
Van Dorn Iron Works Co.
2685 E. 79th St.
Cleveland 4, Ohio

Leonard W. Rettberg
4046 W. 143 St.
Cleveland 11, Ohio
(Plastic Engineering, Inc.)

Kenneth M. Romick
Rempel Mfg., Inc.
404 Morgan Ave.
Akron 11, Ohio

George L. Rosenfeld
Atlantic Plastics & Metals
1582 E. 105th St.
Cleveland 3, Ohio

Harold E. Roth
259 Hedgewood Dr.
Box 876A RD 10
Akron 19, Ohio

Richard L. Rubin
1477 Maplegrove Rd.
Cleveland 21, Ohio
(Lester Engineering)

Richard A. Rybak
R&K Tool & Die Co.
3891 W. 150th St.
Cleveland 2, Ohio

Clifford F. Saurwein
Goodyear Tire & Rub. Co.
c/o Research Dept.
Akron 16, Ohio

W. H. Schwartz
Lester Engineering Co.
2711 Church Ave.
Cleveland, Ohio

Clyde D. Segner
Brainard Rd.
RR 4
Chagrin Falls, Ohio
(B. F. Goodrich Chem. Co.)

Irving L. Shepherd
J. H. Shepherd Son & Co.
1820 E. Avenue Box 14
Elyria, Ohio

Granville H. Shirley
Colonial Plastics Mfg. Co.
8007 Grand Avenue
Cleveland 4, Ohio

Don F. Siddall
U. S. Stoneware Co.
Box 350
Akron 9, Ohio

David J. Sloane
Lester Engineering Co.
2711 Church St.
Cleveland, Ohio

Frank W. Steere, Jr.
414 Greenwood Ave.
Akron 20, Ohio
(Steere Enterprises)

Roy C. Stewart
R & K Tool & Die Co.
3891 W. 150th St.
Cleveland 11, Ohio

N. C. Taylor
Tennessee Eastman Corp.
1604 Terminal Tower Bldg.
Cleveland, Ohio

Duane Thornburg
Thornburg Mfg. Co.
159 Ridge St.
Elyria, Ohio

R. B. Treer
The Warner & Swasey Co.
5701 Carnegie Ave.
Cleveland 3, Ohio

Elno H. Trump
2419 16th St.
Cuyahoga Falls, Ohio
(Trump Plastics, Inc.)

Alan T. Valentine
21349 Seabury
Cleveland 26, Ohio
(National Carbon Co.)

Ward T. Van Orman
Goodyear Tire & Rub. Co.
Akron, Ohio

Kenneth R. Warburton
The Hoover Company
North Canton, Ohio

C. F. Waterfield
Bird Electronic Corp.
1800 E. 38th St.
Cleveland 14, Ohio

Philip J. Weaver
B. F. Goodrich Chemical Co.
324 Rose Building
Cleveland 15, Ohio

Alan L. Weil
H. Muehlstein Co., Inc.
250 Jewett St.
Akron, Ohio

Adrian Welch
Geauga Industries Co., Inc.
P.O. Box 380
Middlefield, Ohio

David C. Williams
1761 Orchard Court
Kingsport, Tenn.
(Tennessee Eastman Corp.)

Oran C. Wilson
Wilson Plastics, Inc.
1531 Milan Rd.
Sandusky, Ohio

Hugh Winn
1180 Riverside Dr.
Akron 10, Ohio
(Firestone Tire & Rub. Co.)

Matthew J. Wittine
22045 Wilmore St.
Euclid, Ohio

Robert E. Workman
(No Address)

Robert J. Wright
1455 East 114th St.
Cleveland 6, Ohio
(W. W. Slg. Mfg. Co.)

Bernard J. Wulf
1376 Edwards Ave.
Lakewood 7, Ohio
(Plastic Engineering, Inc.)

Foster J. Young
2143 17th St.
Cuyahoga Falls, Ohio
(Goodyear Tire & Rub. Co.)

Thomas Zeelo
2481 Noble Rd.
Cleveland 21, Ohio
(Plastics Mold & Die Co.)

Harry M. Zimmerman
2511 14th St.
Cuyahoga Falls, Ohio
(B. F. Goodrich Chem. Co.)

Paul R. Zurlinden
Zenith Plastics Co.
1009 Rockwell Ave.
Cleveland 14, Ohio

CONNECTICUT

OFFICERS

President

Edwin H. Seim
1959 North Avenue
Bridgeport, Conn.
(The Bryant Electric Co.)

Vice-President

David Mersey
511 Norton Parkway
New Haven 4, Conn.
(Multiplastics, Inc.)

Secretary

James C. Orr
Waterbury Companies, Inc.
835 South Main Street
Waterbury, Conn.

Treasurer

James A. Wheeler
22 Nelson Terrace
Bridgeport, Conn.
(A & W Tool Co.)

National Director

Lewis J. Pentland
Durez Plas. & Chem., Inc.
582 N. Main Street
Wallingford, Conn.

Members

Kenneth B. Adolphson
675 Mill Plain Road
Fairfield, Conn.
(Advance Tool Co.)

U. Sherman Avery, Sr.
11 Summer Street
Derby, Conn.
(Celanese Corp. of Amer.)

George E. Baer, Sr.
56 Raymond Street
Stratford, Conn.
(The Bolta Co.)

Alfred F. Bailey—Sgt.
RA11019053
8156 Army Unit APO 3
c/o P.O.
San Francisco, Calif.

Frank Z. Bailey
41 Riverview Ave.
Groton, Conn.
(Improved Paper Machinery Corp.)

George W. Barradas
Plastics Mfgrs., Inc.
375 Fairfield Avenue
Stamford, Conn.

John E. Burger
19 Sprague St.
Waterville 14, Conn.
(Naugatuck Chemical Div.)

Charles E. Carlson
Cable Elec. Products Co.
464 Dexter Street
Providence, R. I.

Donald C. Chase
Farrel-Birmingham Co., Inc.
Main Street
Ansonia, Conn.

C. William Cleworth
C. Wm. Cleworth Publ. Co.
Plastics World
22 W. Putnam Ave.
Greenwich, Conn.

Charles Curran
1605 Barnum Ave.
Bridgeport, Conn.
(Bridgeport Moulded Prods., Inc.)

Charles M. d'Emery
Plastic Products, Inc.
Pine Street
South Norwalk, Conn.

Earle S. Ebers
Naugatuck Chemical Div.
U. S. Rubber Co.
Naugatuck, Conn.

Evert Edgar
Model Tool Co.
113 Jetland Ave.
Bridgeport, Conn.

Helmer N. Ekstrom
The Bryant Electric Co.
Hemco Plastics Div.
1421 State St.
Bridgeport 2, Conn.

Victor T. Erickson, Jr.
53 Seabright Avenue
Bridgeport, Conn.
(Bridgeport Moulded Prods., Inc.)

Paul H. Foytho
The Bryant Electric Co.
1105 Railroad Ave.
Bridgeport 2, Conn.

Herbert C. Goebel
389 Swanson Avenue
Stratford, Conn.

Harry E. Gosselin
112 Atlantic St.
Bridgeport, Conn.
(Bridgeport Plas. Mold.Co.)

Bryant W. Green
2 Crimmins Road
Noroton, Conn.
(Plastics Mfgrs., Inc.)

Milton S. Greenhalgh
General Electric Co.
1285 Boston Avenue
Bridgeport, Conn.

Elias G. Greninger
The Bryant Electric Co.
Box D Barnum Sta.
Bridgeport 2, Conn.

Eric L. Haffling
E. V. Haffling Co., Inc.
916 Conn. Avenue
Bridgeport, Conn.

Franklin R. Hoadley, Jr.
Farrel-Birmingham Co., Inc.
Ansonia, Conn.

Joseph Horvath
197 Woodridge Avenue
Fairfield, Conn.
(J. Horvath Co.)

Emil H. Johnson
Farrel-Birmingham Co., Inc.
Ansonia, Conn.

David P. Klaburner
Naugatuck Chemical Div.
U. S. Rubber Co.
Elm Street
Naugatuck, Conn.

Walter Klinger
42 Alberta Street
Bridgeport, Conn.
(Remington Rand, Inc.)

Louis A. Lepine
90 Sims Street
Bridgeport, Conn.
(Bridgeport Moulded Prods., Inc.)

Gunnar Lindquist
Model Tool Company
115 Jetland Avenue
Bridgeport, Conn.

Alvin H. Lyback
Wallstone Orchards
Lebanon, Conn.

Roger Macdonald
5 Holmes Court
Darien, Conn.
(Koppers Co., Inc.)

Rene P. Magnenat
11 Winthrop Avenue
Naugatuck, Conn.
(Waterbury Co., Inc.)

Stanton C. Martens
126 Lawncrest Road
New Haven 15, Conn.
(General Electric Co.)

Robert M. McGee
Plaskon Division
Libbey-Owens-Ford
Glass Co.
41 E. 42nd St.
New York 17, N. Y.

David Mersey
511 Norton Parkway
New Haven 4, Conn.
(Multiplastics, Inc.)

David Messenger
A. C. Gilbert Co.
Erector Square
New Haven, Conn.

William C. Monahan
Monaplastics, Inc.
Georgetown, Conn.

Joseph P. Moran
Box 76
Norfolk, Conn.
(W. T. La Rose & Assoc.)

Gino Moratti
George S. Scott Mfg. Co.
Carlton Street
Wallingford, Conn.

Albert L. Neveu
16 Williams Street
Taunton, Mass.
(Plastic Molding Corp.)

James C. Orr.
Waterbury Companies, Inc.
835 South Main St.
Waterbury, Conn.

Harold M. Parsekian
Yaleville Road, RFD
Cheshire, Conn.
(Naugatuck Chemical Div.)

Peter P. Paulishak
General Electric Co.
1285 Boston Ave.
Bridgeport, Conn.

Lewis J. Pentland
Durez Plas. & Chem., Inc.
582 N. Main St.
Wallingford, Conn.

Samuel D. Pierson
ABS Tool & Die Co., Inc.
P.O. Box 75
Burlland, Conn.

George W. Rhine
C. Wm. Cleworth Publ. Co.
22 W. Putnam Ave.
Greenwich, Conn.

Stanley J. Robins
120 E. 89th St.
New York 28, N. Y.
(Dollin Corp.)

Louis Sadick
Ross & Roberts, Inc.
1299 West Broad St.
Stratford, Conn.

James H. Savage
James H. Savage Assoc.
105 Bedford St.
Stamford, Conn.

Richard F. Scalise
28 Melrose Place
Stamford, Conn.
(Atlantic Plastics Co., Inc.)

John J. Schwing
186 Grasmere Ave.
Fairfield, Conn.
(United Tool Co.)

William L. Searles
Tennessee Eastman Co.
10 E. 40th Street
New York, N. Y.

Edwin H. Seim
1959 North Avenue
Bridgeport, Conn.
(The Bryant Electric Co.)

Warren A. Sharp
511 Woodridge Road
Fairfield, Conn.
(Bridgeport Moulded
Prods., Inc.)

Edward R. Sherman
Franklin Ave.
Westport, Conn.
(Plastic Products, Inc.)

George D. Simcox
158 Shoreham Village Dr.
Fairfield, Conn.
(The Bryant Electric Co.)

Herbert R. Simonds
551 Fifth Avenue
New York, N. Y.
(Hallmark Inst., Inc.)

William H. Smith
35 Nova Scotia Hill Road
Watertown, Conn.
(Waterbury Co., Inc.)

Frederick H. Sorensen
Main Street
Newtown, Conn.
(American Cyanamid Co.)

Lazarus Spiwak
Snyder Chemical Corp.
Bethel, Conn.

Charles J. Sullivan
138 Oakville Avenue
Waterbury, Conn.
(Conn. Plastic Prod. Co.)

George B. Sunderland
Pond Hill Road RFD #2
Wallingford, Conn.
(American Cyanamid Co.)

Sven C. Svenson
15 Prospect Street
Branford, Conn.
(The Bryant Electric Co.)

Francis E. Teal
Teal Molding Co., Inc.
69 Wheeler St.
New Haven, Conn.

Edwin E. Tevis
Monaplastics, Inc.
Georgetown, Conn.

Charles W. Thompson
A. C. Gilbert Co.
Erector Square
New Haven, Conn.

Arnold Troy
E. F. Drew & Co.
80 Federal Street
Boston, Mass.

Andrew J. Wargo
298 South Benson Road
Fairfield, Conn.
(The Bryant Electric Co.)

James A. Wheeler
22 Nelson Terrace
Bridgeport, Conn.
(A & W Tool Co.)

Robert P. White
Naugatuck Chemical Div.
Naugatuck, Conn.

DETROIT

OFFICERS

President

Harry C. Haaxma
12210 Santa Rosa Dr.
Detroit 4, Michigan
(Wolverine Plastics, Inc.)

Vice-President

William V. DeGalan, Jr.
Koppers Co., Inc.
154 Bagley Street
Detroit 26, Michigan

Secretary

Courtland K. White, Jr.
Hercules Powder Co.
628 Fisher Bldg.
Detroit, Michigan

Treasurer

Erik E. Erikson
Detroit Plastic Prods. Co.
21614 Grosebeck
E. Detroit, Michigan

National Director

Don F. Hoffman
818 W. Hancock
Detroit, Michigan
(Evans-Winter-Hebb, Inc.)

Members

Frank Abbot
Bakelite Co., Div. of
Union Carbide & Car. Corp.
807 Stephenson Bldg.
Detroit, Michigan

Clark M. Adams
Electric Auto-Lite Co.
Bay Mfg. Division
Bay City, Michigan

Ronald D. Beck
70 Hull Street
Coldwater, Michigan
(L. A. Darling Co.)

R. Curtis Bedell
5870 Portage Lake Rd.
Dexter, Michigan
(Mich. Mold. Plastics, Inc.)

Fred H. Berdan
5534 Belfour Rd.
Detroit, Michigan
(E. I. duPont deNemours)

David Berman
Jackson Moulded Plas. Co.
901 South Water St.
Jackson, Michigan

William J. Bichel
12625 Payton Road
Detroit 24, Michigan
(B & C Industries)

W. E. Biggers
Rohm & Haas Company
728 Fisher Bldg.
Detroit 2, Michigan

Anthony Biondi
Una-Craft Eng. Co.
2209 E. Eight Mile Rd.
Hazel Park 3, Michigan

Helmut Blossey
Major Mold & Die Corp.
20955 Schoenherr Rd.
Box 311
E. Detroit, Michigan

Clinton W. Blount
Bakelite Co., Div. of
Union Carbide & Car. Corp.
30 E. 42nd St.
New York 17, N. Y.

William A.Blume
1215 Cherry Street
Huntington, Indiana
(Thermold Company)

Paul J. Boeke
Chrysler Corp.
Detroit, Michigan

W. H. Borden
Synthane Corporation
6560 Case Avenue
Detroit 2, Michigan

R. A. Boyer
East End Park Hotel
53rd & Hyde Park Blvd.
Chicago, Illinois

H. L. Breitenstein
603 Donovan Bldg.
Detroit 1, Michigan

Harry R. Brethen
11341 Woodward Ave.
Detroit, Michigan

A. J. Brueggen
Amer. Brakeblok Div.
4600 Merritt Ave.
Detroit 9, Michigan

Anthony Burian
310 La Prairie
Ferndale 20, Michigan
(Seal-Peel, Inc.)

Robert B. Carter
Celanese Corp. of America
610 Stephenson Bldg.
Detroit 2, Michigan

Ralph E. Chapman
Process Mold Co.
11471 Kercheval Ave.
Detroit 14, Michigan

LaVerne E. Cheyney
Minn. Mining & Mfg. Co.
411 Piquette Avenue
Detroit, Michigan

Albert Chicorel
National Plas. Prods. Co.
P.O. Box 3647
Highland Park, Michigan

Kenneth J. Cleereman
Dow Chemical Co.
Styron Lab.
Midland, Michigan

Fred A. Cole
Amos Molded Plastics
225 E. Baltimore
Detroit 2, Michigan

Fred Conley
510 Stephenson Bldg.
Detroit 2, Michigan

William T. Cruse
The Society of the Plastics Industry, Inc.
67 West 44th Street
New York 17, New York

J. A. Day
Industrial Mach. Tool Co.
1024 W. Seven Mile Rd.
Detroit, Michigan

Louis Deak, Jr.
15901 Sussex Ave.
Detroit 27, Michigan
(Nu-Engineering, Inc.)

Roy H. Dean
24630 Winona
Dearborn, Michigan
(Kurz-Kasch, Inc.)

William V. DeGalan, Jr.
Koppers Co., Inc.
154 Bagley St.
Detroit 26, Michigan

G. W. Delano
(No Address)

Joseph T. Demers
352 Scott Street
Youngstown, Ohio
(Venango Plastics, Inc.)

Albert H. Doerr
Midwest Foundry Co.
Coldwater, Michigan

Samuel Donabedian
4541 Chovin
Dearborn, Michigan
(Woshyna Plastic Molds)

George A. Dudney
19410 Orleans
Detroit 3, Michigan
(Precision Tool)

Erik Evert Erikson
Detroit Plastic Prods. Co.
21614 Grosebeck
East Detroit, Michigan

John R. Finn
Motor Products Corp.
11801 Mack Avenue
Detroit 14, Michigan

Halsey R. Fisher
(No Address)

Jack Frank
18303 Muirland Ave.
Detroit 21, Michigan

Iver J. Freeman
Reed Prentice Corp.
2842 W. Grand Blvd.
Detroit 2, Michigan

Emil R. Gazdick
Evans-Winter-Hebb, Inc.
818 W. Hancock
Detroit 1, Michigan

Rudolph P. Gilcher
2070 Edison Avenue
Detroit, Michigan
(Glar-x, Inc.)

Gerald D. Gilmore
The Dow Chemical Co.
Plas. Tech. Ser. 433 Bldg.
Midland Michigan

W. C. Goggin
Dow Chemical Co.
Midland, Michigan

Fred B. Goulait
Nu-Engineering, Inc.
1515 Bonner Avenue
Ferndale 20, Michigan

Jack E. Gould
Detroit Macoid Corp.
12340 Cloverdale Ave.
Detroit 4, Michigan

Benjamin Arthur Gray
266 West Longwood
Detroit 3, Michigan
(Toy Founders, Inc.)

Dan S. Griffith
Dexter Mold & Tool Co.
3115 B. Street
Dexter, Michigan

Paul C. Haas
The Haas Corp.
Mendon, Michigan

Harry C. Haaxma
12210 Santa Rosa Dr.
Detroit 4, Michigan
(Wolverine Plastics, Inc.)

Gay P. Hall
Richardson Company
6-252 General Motors Bldg.
Detroit 2, Michigan

Folke Halward
18033 Birwood
Detroit 21, Michigan
(Detroit Mold Engr. Co.)

H. R. Hanson
30004 West Ten Mile Rd.
Farmington R R, Michigan
(Hanson Company)

Fred Henkel
13915 Wabash
Milan, Michigan
(Wolverine Plastics, Inc.)

George R. Henriet
(No Address)

Michael Herzina
Mold-A-Matic
1731 E 11 Mile Rd.
Box 286-T RR #4
Royal Oak, Michigan

W. B. Hoey
William B. Hoey, Inc.
Fenton, Michigan

Don F. Hoffman
Evans-Winter-Hebb, Inc.
818 W. Hancock
Detroit 1, Michigan

L. S. House
Recto Molded Prods., Inc.
3-167 G. M. Bldg.
Detroit 2, Michigan

George F. Huntzicker
1705 Morton
Ann Arbor, Michigan
(Wolverine Plastics, Inc.)

Edward L. Jacobson
Universal Button Co.
2250 W. Fort St.
Detroit 16, Michigan

Paul M. Jensen
Dow Chemical Co.
932 Fisher Bldg.
Detroit 2, Michigan

Douglas L. Jocelyn
Plastray Corporation
823 Fisher Bldg.
Detroit 2, Michigan

J. P. Kelso
Bay Mfg. Div.
Electric Auto Lite Co.
723 New Center Bldg.
Detroit, Michigan

Issac Kinsey, III
1655 Fairholme Rd.
Grosse Pointe 30, Michigan

Karl W. Kithil
Celanese Corp. of America
610 Stephenson Bldg.
Detroit 2, Michigan

Harry Kline
19619 Roslyn Road
Detroit 21, Michigan
(Reichhold Chemicals, Inc.)

Joseph R. Knoll
1123 Bird Street
Birmingham, Michigan
(Plastray Corp.)

John A. Koons
Process Mold & Mfg. Co.
11471 Kercheval Blvd.
Detroit, Michigan

H. M. Kordenbrock
Kordenbrock Machinery Co.
2832 E. Grand Blvd.
Detroit 11, Michigan

Walter Robert Kosy
18244 Mansfield
Detroit 35, Michigan
(Chrysler Eng. Labs.)

Andrew F. Kovacs
General Mach. & Tool Wks.
40261 13 Mile Rd.
Walled Lake, Michigan

George J. Kovacs
General Mach. & Tool Wks.
40261 13 Mile Rd.
Walled Lake, Michigan

Charles J. Kramer
R & K Kellering Co.
1515 Bonner Ave.
Ferndale 20, Michigan

Jacob H. Kuhn
69841 McLeod St.
Richmond, Michigan
(MacDonald Mfg. Co.)

H. B. Leinbach, Jr.
Celanese Corp. of America
610 Stephenson Bldg.
Detroit 2, Michigan

Frank W. Less
63 Woodcrest Blvd.
Kenmore 17, N. Y.
(Durez Plastics & Chem.)

James T. Libbey
Michigan Molded Plastics
6432 Case Avenue
Detroit 2, Michigan

Gunnar Lindh
784 Rivard Blvd.
Grosse Pointe 30, Mich.
(The Udylite Corp.)

Patrick John Luckino
5903 Cooper
Detroit 13, Michigan
(Competitors Die & Mold)

Stanley L. Lundsten
Spaulding Fibre Co.
4612 Woodward
Detroit 1, Michigan

Stuart MacDonald
MacDonald Mfg. Co.
New Baltimore, Michigan

Kenneth L. Mac Isaac, Jr.
12024 Chatham Ave.
Detroit 28, Michigan
(Monsanto Chemical Co.)

Anthony S. Marta
16824 Edenburough
Detroit, Michigan
(Burroughs Adding Mach.)

Thomas J. Martin
Monsanto Chemical Co.
Springfield, Mass.

David William McArthur
Reichhold Chemicals, Inc.
601 Woodward Heights
Detroit 20, Michigan

Frederick I. McCosh
Thoreson-McCosh
18229 W. McNichols Rd.
Detroit 19, Michigan

Harry J. McGowan, Jr.
Union Carbide & Car. Corp.
807 Stephenson Bldg.
Detroit 2, Michigan

T. Curtis McKenzie
Klem Chemical Works
14401 Lanson
Dearborn, Michigan

A. David Miles
139 First Street
Milan, Michigan
(Wolverine Plastics, Inc.)

Armand Millier
Nu Engineering Co.
1515 Bonner Ave.
Ferndale 20, Michigan

Morris M. Moats
Detroit Mold. Plas. Corp.
6200 Hamilton Avenue
Detroit 2, Michigan

George Evan Moore
918 Dawson Rd.
Windsor, Ontario, Canada

L. J. Morrison
862 University Place
Grosse Pointe 30, Mich.
(Detroit Mold Engr. Co.)

A. R. Morrow
Continental Can Co.
541 New Center Bldg.
Detroit 2, Michigan

Robert E. Muench
13553 Roselawn
Detroit 4, Michigan
(Una-Craft Engr., Inc.)

John George Myers
519 Slayton St.
Grand Haven, Michigan
(Mich. Plas. Prods., Inc.)

Raymond Nauth
3330 Taylor Street
Detroit 6, Michigan

George F. Neuman
Una-Craft Engr. Co.
2209 E. 8 Mile Rd.
Hazel Park 3, Mich.

Clarence Paul Neumann
Neumann Engraving Co.
9941 Northlawn
Detroit 4, Michigan

Malcolm A. Nichols
Manco Products Corp.
2401-2409 S. Schaefer Rd.
Melvindale, Michigan

Alexander M. Nick
Mercury Plastics Co.
20787 Mound Road
Van Dyke, Michigan

T. Walter Noble
13515 Veronica Ave.
Wyandotte, Michigan
(Plastics Specialties Co.)

Richard G. Oglesby
Rohm & Haas Company
728 Fisher Bldg.
Detroit 2, Michigan

Eric Ostlund
Route 1
Hope Michigan

Lawrence C. Pace
Detroit Plas. Engr. Co.
7047 E. Eight Mile Rd.
Base Line, Michigan

Samuel Bernard Paul
Motor City Plastics
24500 John R. Street
Hazel Park, Michigan

K. G. Peterson
919 N. Michigan #3305
Chicago 11, Illinois

Ralph O. Phillips
Christmas Tree Farm
Londonderry, Vermont
(Bur. of Ordnance-Navy)

W. M. Phillips
Gen. Motors Research Div.
R-11-104 G. M. Research Div.
Detroit 2, Michigan

George Thomas Poirier
17590 Westmoreland Rd.
Detroit 19, Michigan
(Chrysler Corporation)

W. D. Potter
435 Marvin St.
Milan, Michigan
(Wolverine Plastics, Inc.)

Ivar Quarnstrom
Detroit Mold Engr. Co.
6686 E. McNichol Rd.
Detroit 12, Michigan

N. J. Rakas
Nat'l. Automotive Fibres
19925 Hoover Avenue
Detroit, Michigan

Loren T. Raymond
Major Mold & Die Corp.
20955 Schoenherr Rd.
P.O. Box 311
East Detroit, Michigan

Kurt B. Reinicke
21557 Nowlin Rd.
Dearborn, Michigan
(Woshyna Plas. Mold Co.)

Raymond A. Richards
Bakelite Co., Div. of
Union Carbide & Car. Corp.
807 Stephenson Bldg.
Detroit 2, Michigan

R. J. Rickenbacher
Monsanto Chemical Co.
Rm. 827 Fisher Bldg.
Detroit, Michigan

Philip F. Robb
Hercules Powder Co., Inc.
628 Fisher Bldg.
Detroit 2, Michigan

J. S. Rodgers
Wolverine Tube Div.
1411 Central Ave.
Detroit, Michigan

R. W. Rose
M. Whaling & Co.
7-121 Gen. Motors Bldg.
Detroit 2, Michigan

William A. Rowe
R & K Kellering Co.
1515 Bonner Avenue
Ferndale 20, Michigan

Emil George Rudish
12637 Hamburg Street
Detroit 5, Michigan
(Inland Products Co.)

Fred E. Schwab
Schwab & Frank, Inc.
2941 E. Warren Ave.
Detroit, Michigan

Fred E. Seuffert
Fabricon Products, Inc.
1900 Pleasant Avenue
River Rouge 18, Michigan

Miller G. Sherwood
520 Lafayette St.
Grand Haven, Michigan
(Mich. Plas. Prods., Inc.)

Carl E. Shultz
Major Mold & Die Corp.
20955 Schoenherr Rd.
E. Detroit, Michigan

John G. Slater
Tennessee Eastman Corp.
904 Stephenson Bldg.
Detroit 2, Michigan

Stanley J. Slater
7537 Bingham
Dearborn, Michigan
(Minnesota Mining & Mfg.)

Roy A. Smith
Yardley Plastics Co.
218 Lexington Bldg.
2970 W. Grand Blvd.
Detroit 2, Michigan

James F. Somers
General Electric Co.
9101 E. Jefferson Ave.
Detroit 14, Michigan

Ray E. Spokes
Amer. Brakeblok Div.
Amer. Brake Shoe Co.
4600 Merritt Avenue
Detroit 9, Michigan

A. L. Stauft
Wheeling Stamping Co.
410 Traction Bldg.
Cincinnati 2, Ohio

Alvin N. Stomp
Una-Craft Engr. Co.
2209 E. 8 Mile Rd.
Hazel Park 3, Michigan

Ernest J. Storfer
16174 Cherrylawn
Detroit 21, Michigan
(Chrysler Corporation)

Carl W. Sundberg
Sundberg-Ferar
3157 Guardian Bldg.
Detroit, Michigan

Gordon B. Thayer
Dow Chemical Co.
Midland, Michigan

Emes Thompson
15917 Turner Ave.
Detroit 32, Michigan
(Burroughs Adding Mach. Co.)

Reider Thoreson
Thoreson-McCosh
18229 W. McNichols Rd.
Detroit 19, Michigan

Rudolph W. Thuemmler
19350 Ilene Ave.
Detroit 21, Michigan
(Reichhold Chemicals, Inc.)

Edward W. Tillitson
Wayne University
Box 241
Detroit 1, Michigan

John K. Totten
19 Bennington Lane
Dearborn, Michigan
(Ford Motor Company)

Alonzo J. Tripp
Detroit Plastic Tile Co.
21950 Wyoming
Detroit 20, Michigan

J. O. Ullman
E. I. duPont deNemours
5-238 General Motors Bldg.
Detroit 2, Michigan

H. W. Van Amberg
29866 Woodland Rt. 5
Birmingham, Michigan
(Detroit Mold Engr.)

Christopher Van Deventer, III
National Plastics, Inc.
P.O. Box 152
2326-30 McCalla Ave.
Knoxville, Tennessee

George W. Wadtke
Fabricon Prods., Inc.
1721 W. Pleasant Ave.
River Rouge, Michigan

Virgil H. Watson
20306 Goulburn Ave.
Detroit 5, Michigan
(Briggs Mfg. Co.)

Courtland K. White, Jr.
Hercules Powder Co.
628 Fisher Bldg.
Detroit 2, Michigan

Charles T. Wiedman
3155 H. Street
Dexter, Michigan
(Mich. Mold. Plastics, Inc.)

John Vincent Woodford
Bakelite Company
807 Stevenson Bldg.
6560 Cass Avenue
Detroit 2, Michigan

Harold D. Woodmansee
Monsanto Chemical Co.
827 Fisher Bldg.
Detroit 2, Michigan

Fred Woshyna
Woshyna Plastic Mold Co.
6151 Michigan Ave.
Detroit 10, Michigan

Peter Zampol
48 Fairgrove Ave.
Pontiac 15, Michigan
(G.M.C. Truck & Coach Div.)

James T. Zawodni
Peninsular Grinding Wheel
729 Meldrum Ave.
Detroit 7, Michigan

Fred R. Zumstein
14176 Greenview
Detroit 23, Michigan
(Fellows Gear Shaper Co.)

EASTERN NEW ENGLAND

OFFICERS

President

James Lang
Bakelite Co.
930 Statler Bldg.
Boston 16, Mass.

Vice-President

Fred Langhorst
29 Ridge Ave.
Natick, Mass.
(Stanley Chemical Co.)

Secretary

Melvin Haas
The Bolta Co.
151 Canal St.
Lawrence, Mass.

Treasurer

John P. Queeney
40 Westside Rd.
Milton, Mass.

National Director

John La Belle
Koppers Co., Inc.
250 Stuart St.
Boston, Mass.

Members

F. Sydney Andrews
Bay State Abrasive Products Co.
Union Street
Westboro, Mass.

Maynard J. Axelrod
Maynard Plastics, Inc.
181 Spencer Ave.
Chelsea, Mass.

Philip D. Balcom
Abrasive Prods., Inc.
South Braintree, Mass.

R. W. Beckwith
Dow Chemical Co.
20 Providence St.
Boston 16, Mass.

Roger Bliven
2 Lake Street
Hopedale, Mass.
(Victory Plastics Co.)

John Bolten, Jr.
The Bolta Company
151 Canal St.
Lawrence, Mass.

James D. Casey
The Bolta Co.
151 Canal St.
Lawrence, Mass.

Clarence J. Coburn
Victory Plastics Co.
81 Apsley Street
Hudson, Mass.

William D. Cochrane
Carbatex Chem. Co.
Tewksbury, Mass.

Gerard F. Cohan
B. F. Goodrich Chem. Co.
Rm. 1607 140 Federal St.
Boston 10, Mass.

Robert C. Davenport
Geneva Road
Andover, Mass.

Everett E. Day
22 Kenwood Ave.
Saugus, Mass.

Amedio DeFelice
Banner Mold & Die Co., Inc.
105 Union Street
Leominster, Mass.

Albert S. DeNuzzio
29 James Road
Methuen, Mass.
(The Bolta Co.)

Albert G. H. Dietz
Massachusetts Inst. Tech.
Rm. 5-209
Cambridge, Mass.

Francis C. Dooley
H. Muehlstein & Co., Inc.
31 St. James Ave.
Boston 16, Mass.

Robert B. Evans
Standard Tool Co.
75 Water Street
Leominster, Mass.

Robert L. Fish
William Whitman Co., Inc.
655 Summer St.
Lynn, Mass.

Charles E. Flagg, Jr.
Flagg & Co., Inc.
91 Boylston St.
Jamaica Plain, Mass.

Allan G. Folsom
The Bolta Co.
151 Canal St.
Lawrence, Mass.

Jack G. Fuller
Hercules Powder Co.
2203 John Hancock B'dg.
200 Berkeley St.
Boston, Mass.

Paul Gerren
Versa-Tile Co.
393 Main St.
Melrose 76, Mass.

David Goldrosen
Dapol Plastics, Inc.
90 Grove Street
Worcester, Mass.

Albert J. Gottlieb
826 Main Street
Leominster, Mass.
(Standard Pyroxoloid Corp.)

Melvin S. Haas
The Bolta Company
151 Canal Street
Lawrence, Mass.

Marshall Hewson
81 Lynde Street
Melrose 76, Mass.

Walter R. Hickler
Hood Rubber Company
98 Nichols Avenue
Watertown, Mass.

R. Widmer Hubbs
The Harwid Company
229 Binney Street
Cambridge, Mass.

Prescott F. Huidekoper
Plaskon Division
Libbey-Owens-Ford Glass Co.
10 High Street
Boston 10, Mass.

Richard P. Kahn
172 Valley Road
Needham, Mass.
(Plas. Div.—Reiss Assoc.)

Harold A. Kavanagh
110 Maple Avenue
Leominster, Mass.
(Standard Tool Co.)

George Sebastian Laaff
The Bolta Company
151 Canal Street
Lawrence, Mass.

John W. La Belle
Koppers Co., Inc.
250 Stuart St.
Boston 16, Mass.

John F. Lamond
The Bolta Company
151 Canal Street
Lawrence, Mass.

James F. Lang
Bakelite Co.
930 Statler Bldg.
Boston 16, Mass.

Frederick Langhorst
29 Ridge Avenue
Natick, Mass.
(Stanley Chemical Co.)

Viola Makeever
Shirley St.
Winthrop, Mass.

W. Fraser Malcolm
Titanium Pigment Corp.
800 Albany Street
Boston 6, Mass.

Joseph F. Manning
Angier Products, Inc.
120 Potter Street
Cambridge 42, Mass.

J. Mark Marmen
The Rex Corp.
Hayward Rd.
Acton, Mass.

James M. Martin
B. F. Goodrich Chem. Co.
140 Federal St.
Boston 10, Mass.

Peter R. McClure
The Rex Company
51 Landsdowne St.
Cambridge 39, Mass.

William P. McGurn
The Bolta Company
151 Canal Street
Lawrence, Mass.

W. F. Medkeff
46 Salem Street
Andover, Mass.
(The Tyer Rubber Co.)

Ralph L. Mondano
9 Marie Avenue
Cambridge, Mass.
(Raytheon Mfg. Co., Inc.)

Fred E. Mooney
Victory Plastics Co.
Hudson, Mass.

John T. Moore
Tennessee Eastman Corp.
39 Main Street
Leominster, Mass.

Walter W. Peacock, Jr.
Old Coach Rd.
Weston, Mass.
(Naugatuck Chemical Div.)

Howard E. Pendergast
Rex Corporation
51 Lansdowne Street
Cambridge, Mass.

R. D. Pillsbury
Rohm & Haas Co.
1115 Statler Office Bld.
Boston, Mass.

John P. Queeney
40 Westside Rd.
Milton, Mass.

Winston H. Richter
Box 207 Howard St.
Townsend, Mass.
(Monsanto Chemical Co.)

Frank A. Rideout
Bakelite Co.
930 Statler Bldg.
20 Providence St.
Boston 16, Mass.

Matthew H. Riley
U. S. Naval Shipyard
Building 79
U. S. Naval Shipyard
Portsmouth, N. H.

Edward B. Roberts
Hood Rubber Div.
B. F. Goodrich Co.
36 Nichols Ave.
Watertown, Mass.

William L. Root, Jr.
Raytheon Mfg. Co.
Foundry Avenue
Waltham, Mass.

Fred R. Schreiter
P.O. Box 76
South Lancaster, Mass.
(F. R. Schreiter, Inc.)

David A. Sharpe
Andover Street
R.F.D. #1 Box 71
Lowell, Mass.
(Fiberite Corp.)

Milton S. Sheftel
Reed Plastics Corp.
116 Gold Street
Worcester, Mass.

Sylvan Simon
The Bolta Company
151 Canal Street
Lawrence, Mass.

Edward Small, Jr.
30 Phillips St.
Swampscott, Mass.
(Krafelt Corp.)

R. Moen Smith
The Bolta Company
151 Canal Street
Lawrence, Mass.

William M. Smith
The Bolta Company
151 Canal St.
Lawrence, Mass.

J. Murray Stevens
120 School Street
Franklin, Mass.
(Clark, Cutler & McDermott Co.)

Hugh M. Tomb
Laminated Sheet Prods. Inc.
259 A. St.
Boston 10, Mass.

David W. Towler
233 Rowayton Ave.
Rowayton, Mass.
(Plaskon Div.)

Theodore A. Underwood
Standard Tool Co.
75 Water Street
Leominster, Mass.

Ernest L. Vallee
Banner Mold & Die Co., Inc.
105 Union Street
Leominster, Mass.

William G. Van Vliet
Dewey & Almy Chem. Co.
62 Whittemore Ave.
Cambridge, Mass.

C. Craig Waldbilling
Dow Chemical Co.
20 Providence St.
Boston 16, Mass.

Wilbur H. Whitty
Whitty Engr. Co.
10 High Street
Boston 10, Mass.

George A. Wilson
Texloid Products Co.
81 Rumford Ave.
Waltham 54, Mass.

C. A. Woodward
20 Lafayette Circle
Wellesley 81, Mass.
(The Vcinite Co.)

Paul D. Zottu
Electronic Heating Mfg. Co.
66 Needham Street
Newton Highlands 61, Mass.

GOLDEN GATE

OFFICERS

President

J. R. Akers
Bakelite Co.
Div. Union Car. & Carbon
22 Battery Street
San Francisco 6, Calif.

Vice-President

Roy Theiss
Wilson & Geo. Meyer & Co.
333 Montgomery St.
San Francisco 4, Calif.

Secretary

Robert Romo
1724 Balboa St.
San Francisco, Calif.
(Romo Tool & Die Co.)

Treasurer

Joseph Smith
H. Koch & Sons
25 Bay Street
San Rafael, Calif.

National Director

Joseph Smith
H. Koch & Sons
25 Bay Street
San Rafael, Calif.

Members

J. R. Akers
Bakelite Co.
Div. Union Car. & Carbon
22 Battery Street Rm. 513
San Francisco 6, Calif.

Peter K. Arpin
Arpin Plastic Supplies
2804 San Pablo Ave.
Berkeley 2, Calif.

Carlton A. Batchelder
12649 (Rfd) Paseo Olivos Rd.
Saratoga, Calif.
(Jennings Radio & Mfg. Co.)

William H. Cilker
Food Mach. & Chem. Corp.
1105 Coleman Ave. P.O. 760
San Jose, Calif.

Allin R. Copp
Taylor Plastic Supply Co.
3507 E. 12th St.
Oakland, Calif.

Clyde W. Davis
Dow Chemical Co.
Box 351
Pittsburg, Calif.

Leslie M. Davis
American Cyanamid Co.
111 Sutler Street
San Francisco, Calif.

James A. Dubey
Crucible Steel Co. of Amer.
2050 Bryant St.
San Francisco 10, Calif.

Leonard E. Faber
Precision Mfg. Co.
50 Brady St.
San Francisco 3, Calif.

Lloyd A. Griffith
Griffith Tool & Die Co.
4132 Anza Street
San Francisco, Calif.

Richard J. Hough
Celanese Corp. of America
607 Market Street
San Francisco, Calif.

Felix C. Karas
881 Oak St.
Alameda, Calif.
(Dapite, Inc.)

John L. Morrill
Shell Chemical Co.
100 Bush Street
San Francisco, Calif.

Colin D. Murdoch
293 Best Ave.
San Leandro, Calif.

Leo Oiumet
1717 32nd Ave.
Seattle, Washington.
(Paragon Plastics, Inc.)

James Fraser Rae
Industrial Plastics Service
3807 Harrison St.
Oakland 11, Calif.

John G. Robb
4141 Campana Drive
Palo Alto, Calif.
(Amer. Molding Co.)

Clark N. Robinson
641 Mission Street
San Francisco 11, Calif.

Vernon C. Rollins
Monsanto Chemical Co.
111 Sutter St.
San Francisco, Calif.

Robert Romo
1724 Balboa Street
San Francisco, Calif.
(Romo Tool & Die Co.)

Kurt E. Schulze
Schulze Tool & Die Co.
70 Elmira St.
San Francisco, Calif.

Ralph C. Shuey
86 Rock Lane
Berkeley 8, Calif.
(San Francisco College)

Joe B. Smith
H. Koch & Sons
25 Bay St.
San Rafael, Calif.

George W. Stanton
Dow Chemical Company
Box 351
Pittsburg, Calif.

Roger C. Steele
Calif. Reinforced Plas. Co.
1444 Fourth St.
Berkeley 10, Calif.

Frank H. Thames, Jr.
2755 38th Avenue
San Francisco, Calif.
(Wilson & G. Meyer & Co.)

Roy E. Theiss
Wilson & Geo. Meyer & Co.
333 Montgomery St.
San Francisco, Calif.

Peter J. Turkovich
2120 Carmelita Ave.
Burlingame, Calif.
(Griffith Tool & Die Co.)

Richard M. Weber
R. M. Weber Engrv. & Die Shop
772 Harrison Street
San Francisco 7, Calif.

Charles E. Wehn
Listo Pencil Corp.
1925 Union St.
Alameda, Calif.

Lewis N. West
Wilson & Geo. Meyer & Co.
15th Floor 333 Montgomery
San Francisco, Calif.

Robert J. Wnukowski
70 Apollo Street
San Francisco 24, Calif.
(Arrow Tool & Die Co.)

MIAMI VALLEY

OFFICERS

President

Merle F. Nelson
Plastic Moldings Corp.
859 Hathaway St.
Cincinnati 3, Ohio

Vice-President

Charles Selz
1215 Old Orchard Ave.
Dayton 5, Ohio
(Kurz-Kasch, Inc.)

Secretary

Ralph Backscheider
Recto Molded Products
Appleton & B&O RR
Cincinnati 9, Ohio

Treasurer

Paul A. MacPhee
403 Valley St.
Dayton 4, Ohio
(Nat'l. Cash Register Co.)

National Director

Walter F. Oelman
Standard Molding Corp.
1517 E. Third St.
Dayton 3, Ohio

Members

Carl L. Ackerman
1814 Adams Road
Mt. Healthy, Ohio
(Crosley Div.
Avco Mfg. Corp.)

Raymond N. Adams
Adams Plastic Prods.
Box 926
Cincinnati, Ohio

Fred A. Ahlquist
326 W. Stewart St.
Dayton, Ohio
(Kurz-Kasch Co., Inc.)

B. L. Allen
6915 Morrison Place
Madeira, Ohio
(Recto Molded Prods. Inc.)

N. A. Backscheider
Recto Molded Prods., Inc.
Appleton & B&O RR Ave.
Cincinnati, Ohio

R. N. Backscheider
Recto Molded Prods., Inc.
Appleton & B&O RR Ave.
Cincinnati, Ohio

B. F. Bain
#4 Albert Place
Mariemont
Cincinnati 27, Ohio
(Cincinnati Adv. Prod. Co.)

Jacques I. Barnhiser
240 Victor Ave.
Dayton 5, Ohio
(Nat'l. Cash Register Co.)

J. E. Barron
7216 Elbrook Ave.
Cincinnati 13, Ohio
(J. E. Barron & Associates)

J. E. Baxter
Terrace Park, Ohio
(Baxter Company)

Paul J. Best
996 Ebony Lane
Cincinnati 24, Ohio
(Crosley Div.
Avco Mfg. Co.)

Richard W. Bice
4031 Gilmore Ave.
Cincinnati 9, Ohio
(Formica Insulation Co.)

Thomas G. Bishop
292½ Lincoln Avenue
Mount Gilead, Ohio

Ralph Winner Blair
Nat'l. Cash Register Co
Main & K St.
Dayton 9, Ohio

John G. Braden
2841 Winburn Ave.
Dayton 10, Ohio
(F & F Mold & Die Works)

John W. Brierley
220 East Hillcrest Ave.
Dayton, Ohio
(Bakelite Co.)

Harold L. Brouse
Crosley Div.
Avco Mfg. Corp.
1329 Arlington St.
Cincinnati 25, Ohio

Paul L. Caldwell
Plastic Research Products
200 Beech St.
Urbana, Ohio

G. W. Carpenter
Tennessee Eastman Corp.
1305 Third Nat'l. Bldg.
Dayton, Ohio

Robert G. Chollar
139 Balmoral Drive
Dayton 10, Ohio
(Nat'l. Cash Register Co.)

Frank M. Cooper
1821 Schroyer Road
Oakwood, Dayton, Ohio
(Wright Field)

James F. Corwin
Vernay Laboratories, Inc.
S. College Street
Yellow Springs, Ohio

Robert H. Duell
Dimco-Gray Company
207 East Sixth St.
Dayton 2, Ohio

Clarence Dunn
Metal Specialty Co.
Box 251
Richmond, Indiana

Joe Fiedler
F&F Mold & Die Works
103 Sachs St.
Dayton 3, Ohio

John Fiedler
F&F Mold & Die Works
103 Sachs St.
Dayton, Ohio

Otto E. Fiedler
F&F Mold & Die Works
103 Sachs St.
Dayton 3, Ohio

Ralph H. Fink
Nat'l. Cash Register Co.
S. Main & K St.
Dayton 9, Ohio

Arthur C. Fischer
Kurz-Kasch, Inc.
1421 S. Broadway St.
Dayton, Ohio

Hubert F. Frankenfeld
1431 N. Main St.
Urbana, Ohio
(Durez Plas. & Chem. Inc.)

Edwin H. Gerdes
Plastic Moldings Corp.
859 Hathaway St.
Cincinnati 3, Ohio

Robert W. Gerdes
Plastic Moldings Corp.
859 Hathaway St.
Cincinnati 3, Ohio

Henry P. Grace
Hercules Powder Co.
1803 Carew Tower
Cincinnati 2, Ohio

F. E. Gray
Dimco-Gray Co.
207 E. 6th St.
Dayton 2, Ohio

Robert K. Gray
Dimco-Gray Co.
207 E. 6th St.
Dayton 2, Ohio

Gordon D. Hall
Recto Mold. Products, Inc.
Appleton & B. & O. RR
Cincinnati 9, Ohio

Horace C. Hamlin
Wright Air Dev. Center
Box 8454 Wright Patterson
Air Force Base
Dayton, Ohio

Harry Hill
6331 Meis Ave.
Cincinnati 24, Ohio
(Cin. Advt. Prods. Co.)

Alfred S. Jarecki
111 W. Hill Lane
Wyoming 15, Ohio
(Cin. Advt. Prods. Co.)

Carroll M. Jensen
1501 Shafer Blvd.
Dayton 9, Ohio
(Kurz-Kasch, Inc.)

Elbert H. Johnson
614 E. 18th St.
Covington, Kentucky
(Recto Mold. Prods., Inc.)

Arthur Jones
517 Greenwald St.
Dayton 10, Ohio
(Dimco-Gray Co.)

Henry J. Kasch, Jr.
2821 Earlham Drive
Dayton 6, Ohio
(Kurz-Kasch, Inc.)

Martin H. Kasch
1451 Philadelphia Dr.
Dayton 6, Ohio
(Kurz-Kasch, Inc.)

Henry A. Kazimier
R.R. 3
Nashville, Indiana
(Continental Can Co.)

M. V. Kemper
309 Lamont Drive
Dayton 9, Ohio
(American Insulator Corp.)

John Kilfoil
Erie Resistor Corp.
Rm. 610 Trans. Bldg.
Cincinnati 2, Ohio

Stephen B. King
336 Carter Blvd.
Seymour, Indiana
(Grote Mfg. Co.)

Robert B. Knepfle
1632 Robinson Place
Cincinnati, Ohio
(The Metal Specialty Co.)

William C. Koenig
P.O. Box 398
Springfield, Ohio
(W. C. Koenig & Assoc.)

C. H. Kruger
1035 Superior Ave.
Dayton 7, Ohio
(Nat'l. Cash Register Co.)

Lloyd S. Larrick
6004 Elbrook Ave.
Cincinnati 13, Ohio
(Recto Molded Prods., Inc.)

Robert C. Lierman
Reed-Tartz Molding
4th & Court Sts.
Covington, Kentucky

Martin Louik
75 Eisenhower Rd.
Dayton 3, Ohio
(Kurz-Kasch, Inc.)

David E. Lucid
521 Monteray Ave
Dayton 9, Ohio
(Inland Mfg. Div. GMC)

Leroy L. Lyon
1513 Grimes Circle
Urbana, Ohio
(Lyon Design Co.)

John M. Mack
1347 Amherst Place
Dayton 6, Ohio
(E. I. duPont deNemours)

Paul A. MacPhee
403 Valley St.
Dayton, Ohio
(Nat'l. Cash Register Co.)

Stephen D. Marcey
357 College Park Ave.
Dayton 9, Ohio
(Nat'l. Cash Register Co.)

Clarence T. March
203 Perrine St.
Dayton, Ohio
(Kurz-Kasch, Inc.)

D. L. Meeker
Standard Molding Corp.
1517 E. Third St.
Dayton, Ohio

Joseph P. Merke
Plastic Moldings Corp
859 Hathaway St.
Cincinnati 3, Ohio

Edwin Mike
641 Gramont Ave.
Dayton 7, Ohio
(Kurz-Kasch, Inc.)

Donald M. Millholland
W. K. Millholland Mach. Co
6402 Westfield Blvd.
Indianapolis 5, Indiana

Charles S. Mueller
333 Hopeland Street
Dayton 8, Ohio
(Dimco-Gray Co.)

Richard E. Myers
3224 Wonderview
Dayton 4, Ohio
(Standard Molding Co.)

Byron W. Nelson
28 S. Ninth St.
Miamisburg, Ohio
(Nat'l. Cash Register Co.)

Merle F. Nelson
Plastic Moldings Corp.
859 Hathaway St.
Cincinnati, Ohio

Walter F. Oelman
Standard Molding Corp.
1517 E. Third St.
Dayton 3, Ohio

Alfred Orlow
1030 Croyden Road
Dayton, Ohio
(Diamond Tool & Die Co.)

Joseph H. Overwein
2037 Elsmere Ave.
Dayton 6, Ohio
(Inland Mfg. Div. GMC)

Irvin C. Plavsic
618 Fourth Street
Dayton, Kentucky

Alfred G. Plimmer
5088 Eastwood Circle
Cincinnati 27, Ohio
(Cincinnati Milling Mach.)

Henry B. Potter
6355 Heitzler Ave.
Cincinnati 24, Ohio
(Cin. Advt. Prods. Co.)

George M. Prall
Clopay Corp.
Clopay Square
Cincinnati, Ohio

Victor G. Reiling
Kurz-Kasch, Inc.
1421 S. Broadway
Dayton 1, Ohio

Carl John Robinson
525 10th Avenue
Dayton, Kentucky

William H. Robinson
Buckeye Molding Company
213 South Third Street
Miamisburg, Ohio

Melvin V. Roode
Inland Mfg. Div. GMC
2727 Inland Ave.
Dayton 7, Ohio

John [illegible] Russell
[illegible] Lexington Ave.
Dayton 7, Ohio
(Nat'l. Cash Register Co.)

Frank E. Schneider
1004 W. Decatur St.
Decatur, Illinois
(Inland Mfg. Div. GMC)

Thomas S. Scott
324 Grove St.
Dayton 4, Ohio
(Kurz-Kasch Co.)

Charles M. Selz
1215 Old Orchard Ave.
Dayton 5, Ohio
(Kurz-Kasch, Inc.)

H. S. Shaffer, Jr.
H. S. Shaffer & Assoc.
Roselawn Center Bldg.
Suite A-4
Cincinnati 37, Ohio

Frank E. Slavin
General Electric Co.
617 Vine St. Rm. 910
Cincinnati 2, Ohio

Harold S. Spires
333 Rockwood Ave.
Dayton 5, Ohio
(Kurz-Kasch, Inc.)

R. G. Stigler
Standard Molding Corp.
P.O. Box 1030
Dayton 1, Ohio

Richard E. Stockton
Plas. Research Prods. Co.
200 Beech St.
Urbana, Ohio

George Storar, Jr.
820 Nordale Ave.
Dayton, Ohio
(Kurz-Kasch, Inc.)

Frank L. Strobino
920 Superior Ave.
Dayton, Ohio
(General Electric Co.)

George Ross Vines
Kurz-Kasch, Inc.
1421 Broadway
Dayton, Ohio

Francis L. Walters
3319 Far Hills Ave.
Dayton 9, Ohio
(Panelyte Div.—St. Regis Paper Co.)

Carl E. Weber
8364 Jadwin St.
Cincinnati, Ohio
(Crosley Div. Avco Mfg. Corp.)

John Robert White
Buckeye Molding Co.
213 S. Third St.
Miamisburg, Ohio

Fred E. Wiley
Grote Mfg. Co.
Grote Square
Bellevue, Kentucky

G. J. Wilson
RR 1 Box 186
Spring Valley, Ohio
(Nat'l. Cash Register Co.)

Marvin L. Winemiller
RR #1
Batavia, Ohio
(Recto Molded Prods., Inc.)

Robert A. Wright
1422 San Rae Drive
Dayton 9, Ohio
(Dimco-Gray Co.)

D. M. Yost
Sorg Paper Company
901 Manchester Ave.
Middletown, Ohio

NEWARK

OFFICERS

President

Edward W. Rowan
Dillon-Beck Mfg. Co.
1227 Central Ave.
Hillside, N. J.

Vice-President

Joseph Bonanno
56 Woodlawn Rd.
Madison, N. J.
(Lionel Corporation)

Secretary-Treasurer

Jack R. Pecktal
Stephenville Ranch
Homestead Road
Metuchen, N. J.
(Tennessee Eastman Corp.)

National Director

Islyn Thomas
286 Kings Road
Madison, N. J.
(Thomas Mfg. Corp.)

Members

Russell B. Akin
E. I. duPont deNemours
350 Fifth Ave.
New York, N. Y.

Ivey Allen, Jr.
Bakelite Co.
230 Grove St.
Bloomfield, N. J.

Ivan J. Amo
M & W. Company
142 Central Ave.
Clark Twp. Rahway, N. J.

Ernest Arnstein
40 S. Munn Ave.
East Orange, N. J.
(Gering Products, Inc.)

Leon G. Arpin, Jr.
493 Bedford Ave.
Montclair, N. J.
(Armed Forces)

J. W. Arpin
Everglades Mfg. Co.
P.O. Box 222
Coral Gables, Fla.

Alfred S. Backus
Mycalex Corp. of Amer
125 Clifton Blvd.
Clifton, N. J.

Alfred F. Bahlke
Berkeley Eng. & Mfg. Co.
Berkeley Heights, N. J.

Robert C. Bartlett
Nat'l. Varnished Prod.
211 Randolph Ave.
Woodbridge, N. J.

Raymond Bass
Shulton, Inc.
Route 6
Clifton, N. J.

George K. Baumgartl
149 Belleville Ave.
Belleville, N. J.
(Gemloid Corp.)

George Beck
Columbia Eng. Co., Inc.
113-119 Sussex Ave.
Newark 4, N. J.

George H. Beck
Columbia Engr. Co., Inc.
113-119 Sussex Ave.
Newark 4, N. J.

John Beck
369 Martin Road
Union, N. J.
(Dillon-Beck Mfg. Co.)

Paul Beel
19 Martindale Road
Short Hills, N. J.
(Beel Engineering Co.)

Richard Paul Beel
Beel Engineering Co.
411 Mulberry St.
Newark 2, N. J.

Richard M. Bell
International Bus. Mach.
I. B. M. Plant #2
Poughkeepsie, N. Y.

Ernest C. Bernhardt
276 Forest Ave.
Glen Ridge, N. J.

John W. Berthold
American Insulator Corp.
New Freedom, Pa.

Jules R. Besserman
Colorite Plas. of N. J., Inc.
35 Iowa Ave.
Paterson, N. J.

Donald W. Biklen
Orangeburg Mfg. Co., Inc.
Orangeburg, N. Y.

Raymond S. Blake
1204 Lenox Avenue
Plainfield, N. J.
(Plastic Molders Sup. Co.)

John Bokor, Jr.
Kaye Plastic Corp.
Route 27
Stelton, N. J.

Joseph L. Bonanno
56 Woodland Road
Madison, N. J.
(The Lionel Corp.)

Charles A. Borton
Hercules Powder Co.
Parlin, N. J.

Ray R. Bottleman
1125 Rivington St.
Roselle, N. J.
(Ideal Plastics Corp.)

William B. Bradbury
Plastic Molders Supply Co.
915 W. Front St.
Plainfield, N. J.

Norman Bragar
Norman Bragar Co.
1060 Broad St.
Newark 2, N. J.

R. E. Brannan
9 Loraine Road
Summit, N. J.
(Bakelite Co.)

George Brightman
315 Stevens Avenue
Ridgewood, N. J.
(Bakelite Co.)

Von Pelt Brower, Jr.
Celanese Corp. of America
Box 1000
Belvidere, N. J.

Gordon Brown
Bakelite Co. Div. of
Union Carbide & Carbon
30 E. 42nd St.
New York 17, N. Y.

Charles D. Burton
Koppers Company, Inc.
Snyder Avenue
Berkeley Heights, N. J.

Joseph N. Caruso
Atlantic Tool & Die Co.
646 Grove St.
Elizabeth, N. J.

George Clare
Claremould Plastics Co.
200 Wright St.
Newark 5, N. J.

Philip Clare
Claremould Plastics Co.
200 Wright St.
Newark 5, N. J.

E. Robert Coddington
Nat'l. Rubber Mach. Co
1180 Raymond Blvd.
Newark 2, N. J.

Henry F. Colvin
270 West End Road
South Orange, N. J.
(Colvin-Friedman Co.)

John H. Cook, Jr.
Mack Molding Co.
Wayne, N. J.

Leo Cordaro
Premier Tool & Mfg. Co., Inc.
28 Margaretta St.
Newark 5, N. J.

Anton T. Cristell
Ross Tool & Mfg. Co.
140 Clifford St.
Newark 5, N. J.

Ernest J. Csaszar
16 Boyden Ave.
Maplewood, N. J.
(Eagle Tool & Machine)

F. William DeBree
Hercules Powder Co.
500 Fifth Ave.
New York, N. Y.

A. Vard Dennison
53 Benson St.
Glen Ridge, N. J.
(Newark Die Company)

Arthur H. Denzler, Sr.
Essex Co. Voc. School
1060 Broad St.
Newark, N. J.

Adolphe J. DeMatteo
Watson-Stillman Co.
Aldene Road
Roselle, N. J.

Marius DeMattia
264 Broad Ave.
Leonia, N. J.

Richard W. Dinzl
Watson-Stillman Co.
Roselle, N. J.

Malcolm E. Doane
226 Inwood Avenue
Upper Montclair, N. J.
(H. V. Hardman Co., Inc.)

Lou Doerfler, Jr.
Artistic Engraving Co.
53 Academy St.
Newark, N. J.

Myron H. Downs
485 Linden Place
Orange, N. J.

Michael G. Dubenitz
22 Kate Lane
Metuchen, N. J.
(Durez Plas. & Chem. Inc.)

Jack Dubman
J. G. Tilp, Inc.
Springfield & Milltown Rds.
Union, N. J.

J. Harry DuBois
Mycalex Corp. of America
60 Clifton Blvd.
Clifton, N. J.

Robert F. Durst
82 Cleveland St.
Orange, N. J.
(Federal Telecommunication Labs., Inc.)

Leonard K. Eber
General Electric Co.
Chemical Dept.
570 Lexington Ave.
New York, N. Y.

Leon R. Egg
Garfield Mfg. Co.
Box 59
Garfield, N. J.

Robert C. Ellis
Dillon-Beck Mfg. Co.
1227 Central Ave.
Hillside, N. J.

Harold F. Engler
B. F. Goodrich Chem. Co.
475 Fifth Ave. Rm. 1600
New York 17, N. Y.

Arthur H. Ernst
83 Church St.
Woodbridge, N. J.
(Lapin Products, Inc.)

Max Famely
53 Berlant Ave.
Linden, N. J.
(Garwood Plastics, Inc.)

Frank H. Faycik
RFD #5 Box 425
New Brunswick, N. J.
(Plastylite Corp.)

M. Joseph Feeley
104 Linden St.
Wyckoff, N. J.
(Boonton Molding Co.)

Fred H. Fellows
Spaulding Fibre Co.
90-34 Jamaica Ave.
Woodhaven 21, L.I., N. Y.

James N. Ferrier
134 Franklin Ave.
Ocean Grove, N. J.
(Dillon-Beck Mfg. Co.)

James W. Flynn
Celanese Corp. of America
180 Madison Ave.
New York, N. Y.

John J. Fontenelli
Fibro Corp.
501 South Ave.
Garwood, N. J.

Julius Z. Foris
Columbia Engr. Co., Inc.
113-119 Sussex Ave.
Newark 4, N. J.

Eugene L. Fortney
Fortney Mfg. Co.
247 N.J. RR Ave
Newark, N. J.

Roland Frackenpohl
100 Hillside Terrace
Irvington 11, N. J.

C. J. Frosch
Bell Telephone Labs., Inc.
Murray Hill, N. J.

Harold E. Frutchey
304 Moore St.
Hackettstown, N. J.
(Bergen Toy & Nov. Co.)

John Fuchs, Jr.
262 Salem Rd.
Union, N. J.
(L. Doerfler Mfg. Co.)

David H. Garrison, Jr.
1 Mali Drive
North Plainfield, N. J.
(The Garrison Company)

Frank Gedrowicz
995 Sanford Ave.
Irvington, N. J.
(Thomas Mfg. Corp.)

Herman Gering
Gering Products, Inc.
7th St. & Monroe Ave.
Kenilworth, N. J.

Larry Gering
Gering Products, Inc.
7th St. & Monroe Ave
Kenilworth, N. J.

Robert M. Gerlach
Lake Iliff
Newton, N. J.
(Newark Die Company)

M. R. Gerow
74 S. Mountain Ave.
Montclair, N. J.

Irvin J. Gershen, Mjr. USMCR
1060 Marine Corps School
Quantico, Va.

John H. Gesell
Federal Telecommunication Labs., Inc.
500 Washington Ave.
Nutley, N. J.

William Giese
Berkeley Eng. & Mfg. Co.
Berkeley Heights, N. J.

Lucius Gilman
Box #65
Lake Hopatcong, N. J.
(Picatinny Arsenal)

Clare Glander
73 Winsor Place
Glen Ridge, N. J.
(Cowan-Boyden Corp.)

Sydney S. Glider
1617 St. Marks Ave.
Brooklyn 33, N. Y.
(Mastro Plastics Corp.)

Richard M. Goldrick
Irvington Varnish & Insulator Co.
6 Argyle Terrace
Irvington 11, N. J.

William L. Gormley
American Hard Rubber Co.
Park Place
Butler, N. J.

William Gould
93 Sagamore Rd.
Millburn, N. J.
(Keystone Plastics Co.)

Henry Groiss
125 Ridgeley Ave.
Iselin, N. J.
(Middlesex Tool & Mach. Works)

James T. Growley
Celanese Corp. of America
180 Madison Ave.
New York 16, N. Y.

W. W. Gryce
272 Hutton Street
Jersey City 7, N. J.
(Newark Die Company)

James Haggerty
H. Muehlstein & Co.
60 East 42nd St.
New York, N. Y.

G. Lester Hall
R. A. Koegl Stamp & Die Works
9 Evans Terminal
Hillside 5, N. J.

K. C. Halliday, Jr.
Eclipse-Pioneer Div.
Bendix Aviation Corp.
Teterboro, N. J.

Roger H. Hammond
Mack Molding Co.
Ryerson Ave.
Wayne, N. J.

Ernest R. Hanson
53 Church St., E.
Bloomfield, N. J.
(Consultant)

Harold Hartong
Koppers Co., Inc.
Chemaco Plant
Snyder Ave.
Berkeley Heights, N. J.

Richard E. Hartung
R. E. Hartung Co., Inc.
111 12th St.
Cresskill, N. J.

Ralph F. Hayes
Gering Products, Inc.
7th St. & Monroe Ave.
Kenilworth, N. J.

Frank G. Helander
11 Primrose Place
Summit, N. J.
(Watson-Stillman Co.)

Gerard C. Heldrich
Gering Products, Inc.
Kenilworth, N. J.

John A. Herring
Naugatuck Chemical Div.
254 Fourth Avenue
New York, N. Y.

Robert H. Hoehn
Mack Molding Co.
Ryerson Ave.
Wayne, N. J.

Paul D. Holran
Gering Products, Inc.
Kenilworth, N. J.

Albert B. Holzl
Eagle Tool & Mach. Co.
5 Evans Terminal Rd.
Hillside, N. J.

John K. Honish
25 Undercliff Rd.
Millburn, N. J.
(Bakelite Co.)

John F. Hronek
Fellows Gear Shaper Co.
2206 Empire State Bldg.
New York 1, N. Y.

Walter C. Hyde
Spaulding Fibre Co., Inc.
965 Broad St.
Newark, N. J.

Joseph B. Hyman
Catalin Corp. of America
Fords, N. J.

Philip H. Ingham
Bound Brook Div.
Interchemical Corp.
Bound Brook, N. J.

Russell C. Jordan
Plastex Process Co.
230 W. Passaic St.
Maywood, N. J.

Edward F. Joyce, III
Thermacote Company
301 Mt. Pleasant Ave.
Newark 5, N. J.

Philip S. Judge
Stoney-Mueller, Inc.
Lyndhurst, N. J.

Julius A. Jupa
664 Salem Avenue
Elizabeth, N. J.
(M. W. Kellogg Company)

Edwin T. Kaiser
U. S. Fiber & Plas. Corp.
23 Union St.
Stirling, N. J.

Walter Kaminski
185 Central Ave.
East Orange, N. J.
(Elizabeth Tool & Die, Inc.)

George J. Katelus
13 Wade Avenue
Cranford, N. J.

Albert A. Kaufman
Industrial Synthetics Corp.
225 North Avenue
Garwood, N. J.

Kenneth A. Kaufman
Gering Products, Inc.
Seventh & Monroe Ave.
Kenilworth, N. J.

S. Leon Kaye
158 Maple Avenue
Metuchen, N. J.
(Kaye Plastics Corp.)

Anton T. Kemps
New Jersey Tool & Die Co.
800 Colfax Ave.
Kenilworth, N. J.

Irvin O. Kenen
Nixon Nitration Works
Nixon, N. J.

Theodore J. Kerekes
44 Broad St.
Newark 1, N. J.
(Columbia Engr. Co.)

E. F. Keusch
Tech-Art Plastics Co.
Ridgedale Ave.
Morristown, N. J.

Philip Klein
Gilbert Plastics, Inc.
1415 Chestnut Ave.
Hillside, N. J.

John E. Kliphouse
Box 404, 160 Mountain Ave.
Pompton Plains, N. J.
(E. I. duPont deNemours)

Richard A. Koegl
R. A. Koegl Stamp & Die Works
9 Evans Terminal
Hillside 5, N. J.

Neil A. Koop
Gering Products, Inc.
Seventh & Monroe Ave.
Kenilworth, N. J.

Edw. O. Koplitz
179 Green Village Road
Madison, N. J.
(Bright Star Battery Co.)

Herbert F. Kuffler
H. F. Kuffler Corp.
438 E. 76th St.
New York 21, N. Y.

Pascal A. LaGrutta
78 E. Bradford St.
Cedar Grove, N. J.

Arthur Lange
357 Plymouth Road
Union, N. J.
(Park Plastics Co.)

Frank Lefand
53-16th Ave.
Newark, N. J.
(Thomas Mfg. Corp.)

Kenneth M. Leghorn
Sun Tube Corporation
181 Long Avenue
Hillside, N. J.

Richard M. Leiter
Celanese Corp. of America
180 Madison Ave.
New York 16, N. Y.

Allan Leon Lenio
Pyro Plastics Corp.
690 Chestnut St.
Union, N. J.

William M. Lester
Pyro Plastic Corp.
690 Chestnut St.
Union, N. J.

Dan Lichtenstein
450 Bath Ave.
Long Branch, N. J.
(Signal Corps Engr. Lab.)

J. W. Lindau, III
Southern Plastics Co., Inc.
408 Pendleton St.
Columbia 8, S. C.

Walter S. Lodge
60 N. Howard Drive
Foster Village
Bergenfield, N. J.

L. Chester Lordly
R.F.D. #1
Chatham, N. J.
(Federal Tele. & Radio)

Richard R. Lowe
5 Salem Park
Elizabeth 3, N. J.
(Dillon-Beck Mfg. Co.)

Kenneth Macksey
100 Main St.
(Mack Molding Co.)
Wayne, N. J.

Richard Maxfield
General Delivery
San Bernardino, Calif.

Basil E. Mann
323 Tichenor Ave.
South Orange, N. J.
(Dillon-Beck Mfg. Co.)

Robert J. Marcy
302 West 12th St.
New York 18, N. Y.
(The Robert J. Marcy Assoc.)

William A. Marx
153 Willoughby Rd.
Fanwood, N. Y.
(Dillon-Beck Mfg. Co.)

Bryce Maxwell
Princeton University
Plastics Laboratory
30 Charlton St.
Princeton, N. J.

Thomas I. McCabe, Jr.
Bayberry Drive
Plantation
Fort Lauderdale, Fla.
(Imperial Oil Co.)

Vincent D. McCarthy
Gering Products, Inc.
7th & Monroe Ave.
Kenilworth, N. J.

Thomas M. McGuire
Bakelite Company
30 East 42nd St.
New York 17, N. Y.

Vincent L. Mears
(No Address)

James Merenda
423 Madison St.
Hoboken, N. J.
(Shulton, Inc.)

Joseph E. Meyer
1020 Evergreen Ave.
Plainfield, N. J.
(Pro-phy-lac-tic Brush Co.)

Edward V. Michal
(No Address)

Nathan Miksch
Newark Die Company
24 Scott St.
Newark, N. J.

Raymond S. Mistretta
Gering Products, Inc.
Seventh & Monroe Ave.
Kenilworth, N. J.

Coleman P. Morgan
Vulcanized Rubber & Plas.
5 S. Pennsylvania Ave.
Morrisville, Pa.

Hibbert W. Moss
62 Beekman Road
Summit, N. J.
(Improved Paper Mach.)

John A. Munyak
32 Oakview Ave.
Maplewood, N. J.
(Gering Products, Inc.)

Anthony Naturale
104 Passaic Ave.
Summit, N. J.
(Naturale Tools, Inc.)

Joseph W. Naturale
100 Ellington St.
East Orange, N. J.
(Naturale Tools, Inc.)

J. F. Nicholl
252 Christopher St.
Upper Montclair, N. J.
(Lumite Div. Chicopee Mfg. Corp. of Ga.)

William L. Niclaus
Wilpet Engr. & Mfg. Co.
244 Dukes St.
Kearny, N. J.

Salvatore C. Nilo
219 Riverview Parkway, N.
Rome, N. Y.
(Rome Air Devlpt. Center)

Charles A. Norris, Jr.
Bakelite Co. Div. of
Union Carbide and Carbon
30 E. 42nd St.
New York 17, N. Y.

Arthur Nufer
11 Colonial Way
Clark Township
Linden, N. J.
(Bakelite Co.)

John Joseph O'Connell, III
Shell Development Co.
1180 Raymond Blvd.
Newark, N. J.

Joseph A. Ogando, Jr.
177 Wheaton Place
Rutherford, N. J.
(Plastic Mold Tool & Die Co.)

M. A. Olsen
1 Paulus Blvd.
New Brunswick, N. J.
(Modern Plastics)

Murray Olyphant, Jr.
Princeton University
Plastics Laboratory
30 Charlton St.
Princeton, N. J.

Philip O'Neil
Bakelite Co. Div. of
Union Carbide & Carbon
Bound Brook, N. J.

Anton J. Palme
444 Prospect St.
South Orange, N. J.
(Fidelity Tool Co.)

Spencer E. Palmer
Tennessee Eastman Corp.
Kingsport, Tenn.

Joseph M. Pasecznyk
Malapardis Road
Whippany, N. J.
(Plastic Inlays, Inc.)

John B. Paton
91 Beech St.
Arlington, N. J.
(E. I. duPont deNemours)

William H. Peacock
83 Grove St.
Elizabeth 2, N. J.
(American Cyanamid Co.)

Harry E. Pebly, Jr.
153 E. Blackwell St.
Dover, N. J.
(Picatinny Arsenal)

Jack R. Pecktal
Stephenville Ranch
Homestead Road
Metuchen, N. J.
(Tennessee Eastman Corp.)

Douglas P. Pedersen
1109 Plainfield Ave.
Berkeley Heights, N. J.
(Douglas Mfg. Co.)

Kenneth Perkins
Sky Top Drive
Scotch Plains, N. J.
(Diehl Mfg. Co.)

Aldo S. Pero
Apsco Co.
James St.
Bloomfield, N. J.

Mark W. Peters
Nixon Nitration Works
Nixon, N. J.

Peter Pfaff
Wilpet Engr. & Mfg. Co.
244 Dukes St.
Kearny, N. J.

Richard J. Plichta
Mycalex Corp. of Amer.
60 Clifton Blvd.
Clifton, N. J.

D. S. Plume
41 Oakley Ave.
Summit, N. J.
(Rohm & Haas)

Marshall W. Plunkett
18 Staff Village
Radford Ordnance
Radford, Va.

Charles A. Porter
Box 37
Mauricetown, N. J.
(Kimble Glass Co.)

Anton Prassl
1915 Oakwood Pkwy.
Union, N. J.
(L. Doerfler Mfg. Co.)

E. Kirby Preston
145 Bryant Ave.
Springfield, N. J.
(Celluplastics, Inc.)

Willard M. Preston
39 Baltusrol Way
Short Hills, N. J.
(Koppers Co., Inc.)

Karl J. Probst
Reilly Tar & Chem. Corp.
191 Doremus Ave.
Newark, N. J.

Henry J. Pyhel
Hendick Company
217 Berger St.
Woodridge, N. J.

Louis J. Quitoni
318 S. Union Ave.
Cranford, N. J.
(Bestway Products, Inc.)

Louis F. Rahm
Princeton University
Plastics Laboratory
30 Charlton St.
Princeton, N. J.

Walter E. Rahm
10 Yale Terrace
Montclair, N. J.

George H. Reed
American Hard Rubber Co.
93 Worth St.
New York 13, N. Y.

Edwin P. Reese
689 Northumberland Rd.
W. Englewood, N. J.
(Consolidated Mold. Prods.)

Alfred T. Rexer
645 Hort St.
Westfield, N. J.
(Industrial Syn. Corp.)

Joseph P. Rhein
205 Central Avenue
Cranford, N. J.
(Rohm & Haas Co.)

George H. Rieder
74 Hillside Ave.
West Caldwell, N. J.
(R. A. Koegl Stamp & Die Works)

Joseph C. Rogers
279 Shelton Terrace
Hillside, N. J.
(Industrial Hard Chromium Co.)

Thomas F. Rogers
25 Beverly Road
Glen Rock, N. J.
(Hendick Company)

David J. Rosenheim
28 Parker Ave.
Deal, N. J.
(Laurel Plastics, Inc.)

Edward W. Rowan
Dillon-Beck Mfg. Co.
1227 Central Ave.
Hillside, N. J.

Charles B. Sanders
Dillon-Beck Mfg. Co.
1227 Central Ave.
Hillside, N. J.

Milton A. Sanders
734 Vine St.
Elizabeth, N. J.
(Duke Mfg. Co., Inc.)

Jack Sandler
Hungerford Plastics Corp.
114 Beach St.
Rockaway, N. J.

Paul H. Schaaf, Jr.
33 Cleremont Ave.
Irvington, N. J.
(Pyro Plastic Corp.)

J. S. Schaul, Jr.
211 N. 15th St.
Bloomfield, N. J.
(Resistoflex Corp.)

Theodore W. Scheidt
412 Sanhican Drive
Trenton 8, N. J.
(Consolidated Cork Corp.)

Thomas R. Schlitz
Hines & Schlitz
30 Mertz Ave.
Hillside 5, N. J.

William J. Schnorr
M. W. Kellogg Co.
Ft. of Danforth St.
Jersey City, New Jersey

Wayne M. Schrag
Gering Products, Inc.
7th St. & Monroe Ave.
Kenilworth, N. J.

Elmer C. Schule
Allied Chem. & Dye Corp.
Columbia Road
Morristown, N. J.

George J. Schuster
Newark Die Company
24 Scott St.
Newark, N. J.

George K. Scribner
Boonton Molding Co.
326 Myrtle Ave.
Boonton, N. J.

Edward F. Seitz, Jr.
11 Center Drive
Mountain Lakes, N. J.
(Monsanto Chemical Co.)

Stanford H. Shaw
Shaw Insulator Co.
160 Coit St.
Irvington, N. J.

Jay D. Sherman
25 Shadylawn Drive
Madison, N. J.
(Reed-Prentice Corp.)

John G. Simmons
Paterson Industries, Inc.
252 East 16th St.
Paterson, N. J.

Peter W. Simmons
12 Birchwood Lane
Hillside, N. J.
(Dow Chemical Co.)

Jacob Simon
Gilbert Plastics, Inc.
1415 Chestnut Ave.
Hillside, N. J.

Arthur N. Skeels
Art Roll Leaf Stamp. Co.
3610 Palisade Ave.
Union City, N. J.

Herbert A. T. Smith
Thermold Company
Manlius, N. Y.

Walter F. Smith
American Hard Rubber Co.
Park Place, N. J.

Edward B. Soules
Detroit Mold Engr. Co.
1217 Central Ave.
Hillside, N. J.

Albert Spaak
199 First Ave.
Little Falls, N. J.
(DeMattia Machine & Tool Co.)

Edmund W. Spitzig
Newark Die Company
24 Scott St.
Newark, N. J.

George J. Staab
170 Bryant Ave.
Springfield, N. J.
(Sterling Plastics Co.)

Fred B. Stanley
Modern Plastics
575 Madison Ave.
New York 17, N. Y.

Jerome J. Stern
57 Montague St.
Brooklyn, N. Y.
(Whyte Mfg. Co.)

James M. Stewart
Federal Elec. Prod. Co.
50 Paris St.
Newark, N. J.

Edward B. Stratton, Jr.
Indus. Radiant Heat Corp.
P.O. Box 123
Gladstone, N. J.

Robert C. Sturken
Frank W. Egan & Co.
115 Lincoln Blvd.
Bound Brook, N. J.

C. Kenneth Swartz
Consolidated Molded Prods. Corp.
309 Cherry St.
Scranton 2, Pa.

T. Smith Taylor
45 Grover Lane
Caldwell, N. J.
(United States Testing Co.)

Thomas Tedeschi
19 Speedway Ave.
Newark, N. J.
(Gilbert Plastics, Inc.)

Islyn Thomas
286 Kings Road
Madison, N. J.
(Thomas Mfg. Corp.)

James A. Thomson
Dillon-Beck Mfg. Co.
1227 Central Ave.
Hillside, N. J.

George A. Thorwester
Mack Molding Co., Inc.
Ryerson Ave.
Wayne, N. J.

E. C. Tickner
E. C. Tickner, Design
321 Millburn Ave.
Millburn 1, N. J.

Robert F. Tilp
School House Lane
Morristown, N. J.
(J. G. Tilp, Inc.)

Frank Tokes
103 Osborne Terrace
Newark 8, N. J.
(Columbia Engr. Co.)

Winfield J. Trautweiler
Newark Die Company
20-24 Scott St.
Newark, N. J.

Walter G. Tucker
Nixon Nitration Works
Nixon, N. J.

Joseph Vach
Claremould Plastics Co.
200 Wright St.
Newark 5, N. J.

L. W. Van Denburgh, Jr.
Osborn & Elmwood Terrace
Packanack Lake, N. J.
(Resistoflex Corp.)

Harrison N. Van Duyne
Box 244
Towaco, N. J.
(Shaw Insulator Co.)

Paul J. Van Ness
15 Sunset Ave.
Belleville, N. J.
(Van Ness Plas. Mold. Co.)

Hugh Vezzosi
1 Sheldon Terrace
Newark, N. J.
(Lionel Corp.)

Benjamin M. Walker
Resistoflex Corp.
39 Plansoen St.
Belleville 9, N. J.

Arthur J. Warner
Federal Telecommunications Labs., Inc.
500 Washington Ave.
Nutley 10, N. J.

William J. Waters
182 Summit Road
Elizabeth 3, N. J.
(Watson-Stillman Co.)

Milton Weiss
Colorite Plastics of N. J.
35 Iowa Ave.
Paterson, N. J.

L. E. Welch
40 Chapman Place
Glen Ridge, N. J.

Walter E. Werber
Gibson Associates, Inc.
Berkeley Heights, N. J.

William G. Whitehouse
New Vernon, N. J.
(Crown Mach. & Tool Co.)

W. Burdette Wilkins
245 E. Ridgewood Ave.
Ridgewood, N. J.

William H. Willert
11 Maple Wood Ave.
Clifton, N. J.
(Hartig Engine & Mach. Co.)

Joseph H. Wilson
R. A. Koegl Stamp & Die Works
9 Evans Terminal
Hillside 5, N. J.

Wilbert Moody Wilson
Irvington Varnish & Insulator Co.
6 Argyle Terrace
Irvington 11, N. J.

C. William Wisiak
Elizabeth Tool & Die, Inc.
843 Flora St.
Elizabeth, N. J.

John Wittek
Plastics Mold Design
52 New St.
Newark 2, N. J.

Edward J. Wohlfarth
Mayflower Elec. Devices
6014 Hudson Blvd.
West New York, N. J.

Max G. Wohlleben
320 Washington Ave.
Union, N. J.
(Newark Die Company)

Walter R. Yaroshuk
Industrial Synthetics Corp.
225 North Ave.
Garwood, N. J.

Patrick B. Zazzara
Jersey Plas. & Die Cast. Co.
149-155 Shaw Ave.
Irvington 11, N. J.

Gerald R. Zeek
Plastic Inlays, Inc.
282 Broad St.
Summit, N. J.

Carl J. Ziegfeld
Hydraulic Press Mfg. Co.
500 Fifth Ave.
New York 18, N. Y.

Anthony E. Zyskowski
Gering Products, Inc.
Seventh St. & Monroe Ave.
Kenilworth, N. J.

NEW YORK

OFFICERS

President

Bruno Wessinger
Wess Plastics Molds, Inc.
112 S. 6th St.
New Hyde Park, N. Y.

Vice-President

Arthur Merrill
India Rubber World
386 Fourth Ave.
New York, N. Y.

Secretary-Treasurer

Arthur L. Gewertz
Kreiger Color & Chem. Co.
501 Fifth Avenue
New York 17, N. Y.

National Director

Stanley Bindman
Jamison Plastics
71 E. Sunrise Highway
Freeport, L. I., N. Y.

Members

Alex Adenbaum
Accurate Molding Corp.
35-20 48th Avenue
Long Island City, N. Y.

David Adenbaum
Accurate Molding Corp.
35-20 48th Avenue
Long Island City, N. Y.

Leo Adenbaum
Accurate Molding Corp.
35-20 48th Avenue
Long Island City, N. Y.

Christian A. Alfsen
152-19 12 Road
Whitestone, L. I., N. Y.
(Fairchild Record. Equip.)

Charles Arliss
Premier Plastics Co.
905 Atlantic Ave.
Brooklyn 16, N. Y.

William C. Austin
Bakelite Co.
30 East 42nd St.
New York, N. Y.

Al Axel
Ideal Plastics Corp.
184-10 Jamaica Ave.
Hollis 7, L. I., N. Y.

Edmond W. Baggott
Ideal Plastics Corp.
184-10 Jamaica Ave.
Hollis 7, L. I., N. Y.

Gerald F. Bamberger
Amer. Molding Powder & Chem. Corp.
703 Bedford Ave.
Brooklyn 6, N. Y.

John A. Bancale
Ideal Plastics Corp.
184-10 Jamaica Ave.
Hollis 7, N. Y.

Louis C. Barail
222 W. 83rd St.
New York 24, N. Y.

George B. Baron
1405 Park Ave.
New Hyde Park, N. Y.
(Ideal Plastics Corp.)

Bryce M. Batzer
Plastiline, Inc.
2 Intervale St.
White Plains, N. Y.

Murray J. Beck
Leaf Plastics, Inc.
61 Yonkers Ave.
Yonkers, N. Y.

Erwin Benkoe
245-72 61st Ave.
Douglaston, L. I., N. Y.
(Transogram Co., Inc.)

Richard F. Berentsen
1556 Oxford Rd.
Wantagh, L. I., N. Y.
(Rohm & Haas Co.)

N. Richard Berini
Tennessee Eastman Co.
10 East 40th St.
New York, N. Y.

Ralph N. Berke
Carnival Toy Mfg. Corp.
150 Bruckner Blvd.
New York 54, N. Y.

Frederic H. Betke
59-30 69th St.
Maspeth, L. I., N. Y.
(Allied Molding Corp.)

Stanley Bindman
Jamison Plastics Corp.
71 E. Sunrise Highway
Freeport, L. I., N. Y.

Saul Blitz
911 Walton Ave.
Bronx, N. Y.
(Noma Electric Corp.)

George Bohrer
78-24 222nd St.
Flushing, N. Y.
(Ideal Plastics Corp.)

Valentine Boise
Harmon Color Works, Inc.
P. O. Box 14
Hawthorne, N. J.

John K. Boosahda
Busada Mfg. Corp.
58-99 54th St.
Maspeth, N. Y.

Robert N. Boucher
8 Long Lane
Levitttown, L. I.
Hicksville, N. Y.
(Borden Co.)

Harry F. Brensinger
Ideal Plastics Corp.
184-10 Jamaica Ave.
Hollis, L. I., N. Y.

Charles A. Breskin
Modern Plastics Magazine
575 Madison Ave.
New York 22, N. Y.

Robert Brinkema
510 Oakland Ave.
Oakland, New Jersey

J. S. Brody
Franklin Jeffrey Corp.
1671 McDonald Ave.
Brooklyn 30, N. Y.

Harold N. Bross
Still Paper Co.
51 Madison Ave.
New York 10, N. Y.

Sandford Brown
Bakelite Co. Div. of Union Carbide & Carbon
Suite 1130
30 East 42nd St.
New York 17, N. Y.

Herbert L. Brummel
365 West End Ave.
New York 24, N. Y.
(Menee Industries)

Harry W. Buchanan
Metal & Thermit Corp.
100 East 42 St.
New York 5, N. Y.

Warren T. Buschmann
816 Mountain Ave.
Bound Brook, N. J.
(Bakelite Co.)

Michael T. Callahan
1224 Ave. V
Brooklyn, N. Y.
(E. I. duPont de Nemours Co., Inc.)

James M. Church
Columbia University
366 Chandler Hall
119th and Broadway
New York 27, N. Y.

Robert L. Clochessy
36 Mountain Ave.
Pompton Plains, N. J.
(Tech-Art Plastics Co.)

John Parks Coe
United States Rubber Co.
1230 Ave. of the Americas
New York 20, N. Y.

Alan S. Cole
Modern Plastics, Inc.
575 Madison Ave.
New York 22, N. Y.

Robert W. Dailey
Amos Molded Plastics
160 East 48 St.
New York 17, N. Y.

George Darnell
Damac Tool Co.
432 East 165th St.
Bronx 56, N. Y.

Harriman H. Dash
40 Hunter Lane
Levittown, L. I., N. Y.
(Arma Corp.)

Marvin W. Davis
Dusal Tool & Mold Co.
241 Centre St.
New York, N. Y.

Walter Davis
Damac Tool Co.
432 East 165th St.
Bronx 56, N. Y.

Joseph F. Dejmal
82 Virginia Ave.
Hicksville, L. I.
Plainview, N. Y.
(Fairchild Engine)

Maurice L. Diamond
845 Gerard Ave.
Bronx 51, N. Y.
(Toy Plastic Corp.)

Robert Doyle
576 Ave. Z, Apt. 2D
Brooklyn 23, N. Y.
(Chester Pkg. Prods. Corp.)

Howard S. Dudley
3248 44th St.
Long Island City 3, N. Y.
(American Cyanamid Co.)

David R. Dunay
150-07 Jewel Ave.
Flushing 67, L. I., N. Y.
(Rogers Corp.)

Gerald Eisner
American Safety Razor Co.
315 Jay St.
Brooklyn 1, N. Y.

John Egnatski
Allied Molding Corp.
126-02 Northern Blvd.
Corona, N. Y.

Watson O. Elliott
319 Melbourne Ave.
Mamaroneck, N. Y.
(Reed-Prentice Corp.)

Leonard E. Elterman
Popular Plas. Prods. Corp.
256 Main St.
Northport, L. I., N. Y.

Jack Emsig
Emsig Mfg. Co.
225 West 60th St.
New York 23, N. Y.

Sidney Emsig
Emsig Mfg. Co.
225 West 60th St.
New York 23, N. Y.

Vincent J. Esposito
Beacon Engr. Co., Inc.
57 Crooks Ave.
Clifton, New Jersey

Nicholas V. Fasano
Washington Mold. Co., Inc.
28-30 Davis Ave.
Port Washington, N. Y.

Joseph Foier
5534 Ave. D
Brooklyn, N. Y.
(J. R. Foier Plastics Co.)

Benjamin G. Forman
1561 Union St.
Brooklyn 13, N. Y.
(Consultant)

Morton R. French
411 North Village Ave.
Rockville Center, N. Y.
(Commercial Plastic & Sup. Corp.)

Edmond Gabriel
421 East 101st St.
Brooklyn 36, N. Y.
(Gabriel Mfg. Co.)

Norman S. Gardner
474 East 96th St.
Brooklyn, N. Y.
(Renwal Mfg. Co.)

Walter Geber
140 Cabrini Rd.
New York 33, N. Y.
(Omni Products Corp.)

Paul L. Geiringer
Amer. Hydrotherm Corp.
33-70 12th St.
Long Island City 6, N. Y.

Robert Genin
103-10 Queens Blvd.
Forest Hill, N. Y.
(Almor Plastics Corp.)

Arthur L. Gewertz
Kreiger Color & Chem. Co.
521 Fifth Ave.
New York 17, N. Y.

Joseph E. Giammarino
Aurora Plastics Corp.
1615 62nd St.
Brooklyn, N. Y.

Jacob B. Gitner
Amer. Molding Pwdr. & Chem. Co.
703 Bedford Ave.
Brooklyn 11, N. Y.

Saul Gobstein
Amer. Molding Pwdr. & Chem. Co.
703 Bedford Ave.
Brooklyn, N. Y.

Herbert H. Goldmark
1 Greendale Ave.
Mount Vernon, N. Y.
(Amer. Molding Pwdr. & Chem. Co.)

Herman E. Goodyear
438 Glen Ave.
Port Chester, N. Y.
(Empire Brushes, Inc.)

Joseph M. Gordon
57 Greenwood Ave.
Swampscott, Mass.
(Gordon Plas. Prod. Corp.)

Franklin M. Gottheimer
Omni Products Corp.
460 Fourth Ave.
New York, N. Y.

George A. Gould
A. Bamberger Corp.
703 Bedford Ave.
Brooklyn, N. Y.

Sigmund H. Halpern
Classic Plastics, Inc.
149 Denton Ave.
New Hyde Park, L. I., N. Y.

Herbert Heller
360 First Ave.
New York, N. Y.
(H. Muehlstein & Co.)

Arthur E. Herman
Commercial Plas. & Sup.
55 Prince St.
New York 12, N. Y.

Dale G. Higgins
55 South Dr.
New Brunswick, N. J.
(John Waldron Corp.)

Walter E. Hirtz
A. Bamberger Corp.
703 Bedford Ave.
Brooklyn 6, N. Y.

William Hogenson, Jr.
200 E. 66th St.
New York, N. Y.
(Stanley Sapory Co.)

William J. Howell, Jr.
Owens-Corning Fiberglas
16 East 56th St.
New York 22, N. Y.

G. Palmer Humphrey
630 Gramatan Ave.
Mt. Vernon 1, N. Y.

Durbin Hunter
Koppers Co., Inc.
350 Fifth Ave.
New York, N. Y.

Anton Jackson
U.S. Tool & Mfg. Co., Inc.
454-462 E. 148th St.
New York 55, N. Y.

Boris A. Jackson
U.S. Tool & Mfg. Co., Inc.
454-462 E. 148th St.
New York 55, N. Y.

Arthur S. Jacobs
Renwal Mfg. Co.
124 North Court
Roslyn, N. Y.

Alex E. Javitz
2515 Davidson Ave.
New York 68, N. Y.
(Gage Publishing Co.)

Robert Maxwell Joffe
Moulding Corp. of America
53 Crosby St.
New York 12, N. Y.

Torkil Johansen
Nordan Plastics Corp.
101 Richardson St.
Brooklyn, N. Y.

Willard J. Johnson
133 Erie Ave.
Midland Park, N. J.
(Modern Plas. Mach. Co.)

Joseph H. Jones, Jr.
Union Carbide & Carbon
30 East 42nd St.
New York 17, N. Y.

Joseph A. Joyce
Plaskon Div. L-O-F Glass
41 East 42nd St.
New York 17, N. Y.

Abraham M. Katz
Ideal Plastics Corp.
184-10 Jamaica Ave.
Hollis, N. Y.

Charles M. Kendrick
147 West 55th St.
New York 19, N. Y.

Frank H. Kennedy
Electronic Wave Prods., Inc.
15 East 22nd St.
New York 10, N. Y.

Louis Kettler
941 Jerome Ave.
New York 52, N. Y.
(Consulting Engr.)

Charles W. Kleiderer
91 Tulip Ave.
Bldg. H-1 Apt. GL-1
Floral Park, N. Y.
(Arnold Brilhart Ltd.)

Nicholas Klein
Whyte Mfg. Co., Inc.
113 Fourth Ave.
New York 3, N. Y.

Max Klueger
Omni Products Corp.
460 Fourth Ave.
New York 16, N. Y.

Chester L. Kosin
123-41 146th St., S.
Ozone Park 20, L. I., N. Y.
(Ideal Plastics Corp.)

William J. Kreizel
Richards Lane
Hewlett Harbor, L. I., N. Y.

Ben Kretkowski
Amer. Molding Pwdr. & Chem. Co.
703 Bedford Ave.
Brooklyn, N. Y.

George A. La Cas
Amer. Safety Razor Corp.
315 Jay St.
Brooklyn 1, N. Y.

Frederick Lamy
110 West 96th St.
New York 25, N. Y.
(Gering Products, Inc.)

John H. Lane
2 Cortlandt Ave.
New Rochelle, N. Y.
(Solvents Reclaiming & Chemical Wks.)

Leon Lautin
Lautin Plastics
2004 McDonald Ave.
Brooklyn 23, N. Y.

George W. Leaf
Leaf Plastics Inc.
135 Woodworth Ave.
Yonkers, N. Y.

A. J. Lesbriel
Formica Corp.
101 Park Ave.
New York 17, N. Y.

Bernard B. Levine
Moulding Corp. of America
53 Crosby St.
New York 12, N. Y.

William Lewi
1840 Relyia Dr.
Merrick, N. Y.
(Dusal Tool & Mold Co.)

Burton L. Lilling
2956 Wostrand Ave.
Brooklyn 29, N. Y.
(Sup. Wire & Cable, Inc.)

Jack Liss
Marbeck Inc.
1200 Manhattan Ave.
Brooklyn 22, N. Y.

A. J. Lorenz
American Hard Rubber Co.
11 Mercer St.
New York, N. Y.

Joseph Lupo
26 E. Cedar St.
Mt. Vernon, N. Y.
(Lupo Research Labs., Inc.)

Max Mansfield
Hardfield Corp.
454 Carbide St.
Hato Rey, Puerto Rico

Raymond Marks
211 E. Second St.
Mineola, N. Y.
(Pycolite Plastics Corp.)

Guy Martinelli
Sylvan Plastics, Inc.
350 Fifth Ave.
New York 1, N. Y.

Hiram Mc Cann
Modern Plastics, Inc.
575 Madison Ave.
New York 22, N. Y.

Donald L. Mc Lellan
Bakelite Co.
River Rd.
Bound Brook, N. J.

Fred C. Meacham
Northern Indus. Chem. Co.
441 Lexington Ave.
New York 17, N. Y.

Harry L. Meklembourg
Progressive Plas. Mfg. Co.
605 East 132nd St.
New York 54, N. Y.

Samuel Melcher
C. B. Cotton, Inc.
114 Forrest St.
Brooklyn, N. Y.

Gary G. Menkel
4 Peter Cooper Rd.
New York 10, N. Y.
(Design Center, Inc.)

Walter J. Merck
M. W. Kellogg Co.
P. O. Box 469
Jersey City, N. J.

Arthur M. Merrill
India Rubber World
386 Fourth Ave.
New York 16, N. Y.

Arnold M. Meyer, Jr.
Bakelite Co. Div. of
Union Car. & Carbon Corp.
30 East 42nd St.
New York, N. Y.

Frank Michelli
Ideal Plastics Corp.
184-10 Jamaica Ave.
Hollis 7, N. Y.

Jerome L. Miller
Ideal Plastics Corp.
184-10 Jamaica Ave.
Hollis 7, N. Y.

Michael Miller
Miller Plastics, Inc.
130-28 91st Ave.
Richmond Hill 18, N. Y.

Clare L. Milton, Jr.
Eastern Venetian Blind Co.
1601 Wicomico St.
Baltimore 30, Md.

David A. Munns
Bakelite Co. Div. of
Union Car. & Carbon Corp.
30 East 42nd St.
New York, N. Y.

Arthur B. Namm
Molded Plas. Button Corp.
63-17 Rockaway Bch. Blvd.
Arverne, N. Y.

George S. Northrop
1701 LeHigh Rd.
Wantagh, N. Y.
(Jamison Plastics Corp.)

Henry Oettinger, Jr.
91-09 71st Ave.
Forest Hills 75, N. Y.
(Reilly Electrotype Co.)

John F. Ortner
Durez Plas. & Chems., Inc.
250 Park Ave.
New York 17, N. Y.

Curtis F. Pearl
Arnkurt Associate Engrs.
19 West 26th St.
New York 10, N. Y.

Rolf Pelikan
430 E. Twentieth St.
New York 9, N. Y.
(Ideal Plastics Corp.)

Ralph Perkins, Jr.
Owens-Corning Fiberglas
Fiberglas Bldg.
16 East 56th St.
New York 22, N. Y.

Paul Philipson
4143 39th Place
Sunnyside 4, N. Y.
(Breskin Publications)

Daniel N. Phillips
Bakelite Co.
30 East 42nd St.
New York, N. Y.

Miles Powell, Jr.
DuPont-Polychem. Dept.
14th Floor, 350 Fifth Ave.
New York, N. Y.

Herbert Preiss
American Molding Pwd'r.
& Chem. Corp.
703 Bedford Ave.
Brooklyn, N. Y.

Herbert Proske
Wheelco Instruments Co.
92 Liberty Ave.
New York 6, N. Y.

Joseph F. Quinlan
3430 208th St.
Bayside, L. I., N. Y.
(E. I. duPont de Nemours
& Co., Inc.)

Herbert L. Raff
2232 Strauss St.
Brooklyn, N. Y.
(Renwal Mfg. Co.)

Dewey Rainville
Ball & Jewell, Inc.
24 Franklin St.
Brooklyn 22, N. Y.

K. William Rasmussen
139 8th St.
Wood-Ridge, N. J.
(Beacon Engr. Co. of N.J.)

James M. Ribas
Omni De Mexico S.A.
5 de Mayo No. 27
Rooms 74 & 75
Mexico, D. F.

George H. Rice
American Cyanamid Co.
30 Rockefeller Plaza
New York 20, N. Y.

John L. Rie
29 Cresthill Rd.
Tuckahoe, N. Y.

David Rome
David Rome Assoc.
350 Fifth Ave.
New York, N. Y.

Alfred A. Rosenthal
Alfred A. Rosenthal Plas-
tics & Engr.
3 Park Row
New York 7, N. Y.

Alexander Ross
Novo-Plas Mfg. Co., Inc.
275 Front St.
Brooklyn 1, N. Y.

Irvin I. Rubin
Robinson Plastics Corp.
132 Lafayette St.
New York 13, N. Y.

Harry Salad
383 E. 17th St.
Brooklyn, N. Y.
(Renwal Mfg. Co., Inc.)

Walter J. Salmons
Dusal Tool & Mold Co., Inc.
241 Centre St.
New York, N. Y.

Abb L. Scarbrough
444 Seminary Ave.
Rahway, N. J.
(National Lead Co.)

William Schack
106 West 69th St.
New York 23, N. Y.

Joel Schatz
1180 Sterling Place
Brooklyn 13, N. Y.
(Eastern Doll Corp.)

Charles Schner, Jr.
Buttondex Corp.
386 4th Ave.
New York 16, N. Y.

Henry Schoenau
Plastiline, Inc.
2 Intervale St.
White Plains, N. Y.

Harold Schor
8847 Bay 16 St.
Brooklyn, N. Y.
(Publicist)

Harold H. Schwartz
228 N. Regent St.
Port Chester, N. Y.
(Empire Brush Works)

Clem F. Scofield
Plastiline, Inc.
2 Intervale St.
White Plains, N. Y.

Theodore Sembrat
52-07 82nd St.
Elmhurst, L. I., N. Y.
(Gemloid Corp.)

T. W. Sharp
Bakelite Co. Div. of
Union Car. & Carbon Corp.
30 East 42nd St.
New York 17, N. Y.

Jerome Shiffman
Standard Unbreakable
Watch Crystals
385 Gerard Ave.
New York 51, N. Y.

William M. Shine
Arnold Hoffman & Co., Inc.
521 Fifth Ave.
New York 17, N. Y.

Sam Silberkraus
403 W. 261st St.
New York 63, N. Y.
(Riverdale Laboratory)

Henry N. Simons
American Vinyl Corp.
38-01 23rd Ave.
Long Island City 5, N. Y.

Russell H. Skidmore
Celanese Corp. of America
180 Madison Ave.
New York, N. Y.

S. I. Slater
Slater Elec. & Mfg. Co., Inc.
56th St. & 37th Ave.
Woodside, N. Y.

Gerard H. Sloane
H. Kohnstamm & Co., Inc.
83 Park Place
New York, N. Y.

Adolph E. Slobodzinski
9430 77th St.
Ozone Park, L. I., N. Y.
(Ideal Toy & Novelty Co.)

Allen B. Smith
Turner Halsey Co.
40 Worth St.
New York, N. Y.

S. J. Smith
8 McKenna Ave.
Baldwin, L. I., N. Y.
(Kaye-Tex Mfg. Corp.)

Leo Spalter
Progressive Plastics Co.
605 E. 132nd. St.
New York, N. Y.

Fred Stecker
104-17 129th St.
Richmond Hill 19, N. Y.
(Ideal Plastics Corp.)

Salvatore S. Stivala
13-14 B Sperber Rd.
Fairlawn, N. J.
(Stevens Inst. of Tech.)

Samuel S. Stone
1164 Cromwell Ave.
New York 52, N. Y.
(Nordan Plastics Corp.)

Benjamin Stopek
466 Steven Ave.
Buxton House #57
W. Hempstead, N. Y.
(Ideal Plastics Corp.)

Richard F. Stott
Stott Tool & Machine Co.
61 East Second St.
Mineola, N. Y.

B. Martin Stregack
A.B.S. Mfg. Co., Inc.
133 W. 19th St.
New York 11, N. Y.

Joseph Sucher
Emsig Mfg. Co.
225 West 60th St.
New York, N. Y.

Frederick C. Sutro, Jr.
PM Industries
Union Carbide & Carbon
280 Fairfield Ave.
Stamford, Conn.

Alfred W. Sutter
141 East 44th St.
New York, N. Y.

Richard McC. Thews
979 Smith St.
Uniondale, N. Y.
(Monsanto Chemical Co.)

John E. Tiso
36 Tamerling Ave.
Babylon, N. Y.
(Accurate Cast & Mold Co.)

Walter A. Toepel
99-54 64th Rd.
Forest Hills, N. Y.
(Parker Kalon Corp.)

Gene S. Tucker
Empire Brushes, Inc.
200 William St.
Port Chester, N. Y.

Ferdinand A. Vaupotic
Stoney-Mueller, Inc.
Page & Newark Aves.
Lyndhurst, N. J.

Ralph M. Verni
Jamison Plastic Corp.
71 East Sunrise Hgwy.
Freeport, L. I., N. Y.

Carl W. Virgin
Naugatuck Chemical Div.
254 Fourth Ave.
New York, N. Y.

John J. Vitellaro
81-14 262nd St.
Floral Park, N. Y.
(Ideal Plastics Corp.)

J. Martyn Voegtlen
Celanese Corp. of Amer.
180 Madison Ave.
New York, N. Y.

Sheldron H. Waldron
Clopay Corp.—Industrial Prods. Div.
386 Fourth Ave., Rm. 608
New York 16, N. Y.

Winslow A. Ward III
American Cyanamid Co.
30 Rockefeller Plaza
New York, N. Y.

Herbert J. Weber
Rotuba Extruders-Waljohn Plastics
437-88th St.
Brooklyn 9, N. Y.

Herbert M. Weinraub
Plastylite Corp.
731 W. Front St.
Plainfield, N. J.

Forrest T. Weisburst
Kings Specialty Co.
482 Baltic St.
Brooklyn, N. Y.

Irving A. Weisburst
Kings Specilty Co.
482 Baltic St.
Brooklyn, N. Y.

Bruno E. Wessinger
Wess Plastics Molds, Inc.
112 S. 6th St.
New Hyde Park, N. Y.

George J. Wexler
4006 14th Ave.
Brooklyn, N. Y.

Joseph B. Williams
Tennessee Eastman Corp.
260 Madison Ave.
New York, N. Y.

Robert A. Woodard
Catalin Corp. of America
One Park Ave.
New York 16, N. Y.

Joseff Yakooleff
156 East 79th St.
Apt. 8-B
New York, N. Y.
(Ideal Plastics Corp.)

George John Zador
12 Cox Ave.
Yonkers, N. Y.
(H. Muehlstein & Co.)

Sanford S. Zimmerman
F. J. Stokes Machine Co.
103 Park Ave.
New York 17, N. Y.

Samuel D. Zimtbaum
Ideal Plastics Corp.
184-10 Jamaica Ave.
Hollis, L. I., N. Y.

Victor Zuger
75-20 198th St.
Flushing, N. Y.
(Plastic-Ware, Inc.)

Ludwig G. Zucker
Emerson Radio & Phonograph Corp.
Gov. Electronics
111 Eighth Ave.
New York, N. Y.

Sidney Zweier
4178 Paulding Ave.
Bronx, N. Y.
(Noma Electric Corp.)

NORTHERN INDIANA

OFFICERS

President

Ferris E. Newman
U. S. Rubber Co.
New Haven Ave.
Fort Wayne, Ind.

Vice-President

Cecil W. Armstrong
Argonne Road
Warsaw, Indiana
(Cecil W. Armstrong & Assoc.)

Secretary-Treasurer

Philip A. Leonard
Wayne Plastic Corp.
2224 Dwenger
Ft. Wayne, Indiana

National Director

Wayne I. Pribble
Barrier-Pribble & Co., Inc.
554 Eben St.
New Haven, Indiana

Members

Cecil W. Armstrong
P. O. Box #1
Warsaw, Indiana
(Cecil W. Armstrong & Assoc.)

Alvis L. Barrier
Barrier-Pribble & Co., Inc.
554 Eben St.
New Haven, Indiana

John Groesbeck
c o Miss Louise Brown
718 W. Wayne
Ft. Wayne, Indiana
(U. S. Rubber Co.)

David D. James
3470 Meridian St.
Apt. 507
Indianapolis 8, Indiana

Tennis Mahoney
Mahoney Tool & Model Co.
RR 14, 7010 Laura Lane
Fort Wayne, Indiana

Ferris E. Newman
U. S. Rubber Co.
New Haven Ave.
Ft. Wayne, Indiana

Wayne I. Pribble
Barrier-Pribble & Co., Inc.
554 Eben St.
New Haven, Indiana

NORTH TEXAS

National Director

Louis H. Barnett
Loma Plastics, Inc.
P. O. Box 11277
Ft. Worth, Texas

Members

Louis H. Barnett
Loma Plastics, Inc.
P. O. Box 11277
Ft. Worth, Texas

Mauris U. Barton
342 Avenue F.
Dallas 16, Texas

Carl W. Bontemps
Rohm & Haas Co.
Southland Bldg. Annex
209 Browder St.
Dallas 1, Texas

Lawrence E. Gilhousen
728 Kansas Avenue
Chickasha, Oklahoma
(Standard Cable Corp.)

George A. Peck
Standard Cable Corp.
Chickasha, Oklahoma

NORTHWESTERN PENNSYLVANIA

OFFICERS

President

William Byrd
Byrd Tool & Mold Co.
2953 W. 12th Street
Erie, Pennsylvania

Dick V. Connors
Presque Isle Plastics
2730 W. 12th Street
Erie, Pennsylvania

Secretary

John Specht
Sylvania Electric Co.
Warren, Pennsylvania

Treasurer

N. R. Reyburn
Applied Plastics
1102 W. 12th St.
Erie, Pennsylvania

National Director

William Conroy
503 Marshall Drive
Erie, Pennsylvania
(Erie Resistor Corp.)

Members

Dwight M. Anderson
Yardley Plastics
142 Parsons Avenue
Columbus, Ohio

Roland B. Anderson
Anson Tool & Gages
2733 Will Street
Erie, Pennsylvania

R. C. Asmus
Erie Die Company
3952 W. 12th Street
Erie, Pennsylvania

Henry Avery
Pittsburgh Coke & Chem.
1905 Grant Building
Pittsburgh 19, Pennsylvania

Wade E. Barre, Jr.
8 Bauer Street
Warren, Pennsylvania
(Sylvania Elec. Prods., Inc.)

Stanley Berg
Stanley Berg & Co.
615 Frick Building
Pittsburg 19, Pennsylvania

Albert D. Berry
Dow Chemical Company
2314 Terminal Tower
Cleveland, Ohio

Leland L. Berry
Quinn-Berry Corp.
2601 West 12th St.
Erie, Pennsylvania

Robert E. Berry
Berry Tool & Mach. Corp.
2605 W. 12th Street
Erie, Pennsylvania

Donald H. Blair
1813 Jackson Street
Aliquippa, Pennsylvania
(Koppers Company, Inc.)

B. H. Bowlus
954 West 6th Street
Erie, Pennsylvania
(Applied Plastics Div.)

John P. Brecker
R. D. 3 Flower Rd.
Erie, Pennsylvania
(Louis Marx Co. of Pa., Inc.)

Walton Frederick Brooks
3128 Plum Street
Erie, Pennsylvania
(Quinn Berry Corp.)

David C. Byrd
Byrd Tool & Mold Company
2953 West 12th Street
Erie, Pennsylvania

William R. Byrd
Byrd Tool & Mold Company
2953 West 12th Street
Erie, Pennsylvania

Henry G. Callahan
Presque Isle Plastics Co.
2720 West 12th Street
Erie, Pennsylvania

Charles E. Catalde
Erie Resistor Corp.
1345 West 12th St.
Erie, Pennsylvania

Leon Christiansen
Sylvania Elec. Prods., Inc.
825 Lexington Avenue
Warren, Pennsylvania

Harold S. Cloyd
Nosco Plastics
1617 Cascade St.
Erie, Pennsylvania

Gilbert Comstock
Perry Plastics, Inc.
561 East 18th Street
Erie, Pennsylvania

Dick V. Conner
Presque Isle Plastics Co.
2730 West 12th Street
Erie, Pennsylvania

William C. Conroy
503 Marshall Drive
Erie, Pennsylvania
(Erie Resistor Corp.)

Walter B. Craig
Monarch Machine Tool Co.
512 Empire Building
Pittsburgh 22, Pennsylvania

C. J. Denmark
Presque Isle Plastics, Inc.
2730 West 12th Street
Erie, Pennsylvania

John J. Doyle
3844 Sunset Blvd.
Erie, Pennsylvania
(Quinn-Berry Plas. Corp.)

Ralph Martin Dudley
Erie Resistor Corp.
644 West 12th Street
Erie, Pennsylvania

Robert T. Ely
Acorn Plastic Engrs., Inc.
1114 Peach Street
Erie, Pennsylvania

Kenneth A. Erwin
112th Inf. Regt.
28th Inf. Div.
A.P.O. 111
New York, New York

Harry L. Farnstrom
234 Pittsburgh Ave.
Erie, Pennsylvania
(Farnstrom & Son Tool & Die)

Harry T. Farnstrom
1242 West 8th Street
Erie, Pennsylvania
(Farnstrom & Son Tool & Die)

Harrison U. Ferrebee
1020 Elk Street
Franklin, Pennsylvania
(Franklin Plastics Div.)

G. Richard Fryling
Erie Resistor Corp.
644 W. 12th St.
Erie, Pennsylvania

Edward L. Garloch
Erie Resistor Corp.
1345 W. 12th St.
Erie, Pennsylvania

Harold H. George
Perry Plastics, Inc.
561 East 18th Street
Erie, Pennsylvania

Frank Gorenflo
463 West 8th Street
Erie, Pennsylvania
(Quinn-Berry Corp.)

William C. Holden
Erie Resistor Corp.
1345 W. 12th Street
Erie, Pennsylvania

Louis Huber
Perry Plastics, Inc.
561 East 18th Street
Erie, Pennsylvania

C. A. Jordan
Sylvania Electric Products
208 East Street
Warren, Pennsylvania

Robert W. Karns
3324 Allegheny Road
Erie, Pennsylvania
(General Electric Co.)

Evald L. Kling
928 McConnell Avenue
Erie, Pennsylvania
(Erie Resistor Corp.)

Charles W. Kufner
420 Vermont Avenue
Erie, Pennsylvania
(Nosco Plastics)

George Laurenson
Applied Plastics Div.
Keystone Brass Works
1102 West 12th Street
Erie, Pennsylvania

Donald Leet
Erie Resistor Corp.
1345 West 12th St.
Erie, Pennsylvania

Gerald Lewis
1404 Oakmont Avenue
Erie, Pennsylvania
(Berry Tool & Mach. Corp.)

J. Albert Loranger
Plas. Specialty Products.
36 Clark Street
Warren, Pennsylvania

Rodney E. Lundwall
Nosco Plastics
Box 269
Erie, Pennsylvania

Lloyd T. Moore
1023 Chestnut Hill Drive
Erie, Pennsylvania
(Applied Plastics)

James P. Murphy
3620 West 13th Street
Erie, Pennsylvania
(Quinn-Berry Corp.)

F. D. Oberkircher
Nosco Plastics
17th & Cascade Sts.
Erie, Pennsylvania

Walter C. Oge
Oge Tool Company
816 East 26th St.
Erie, Pennsylvania

Wayne J. Osborn
Perry Plastics, Inc.
561 East 18th Street
Erie, Pennsylvania

John E. Parks
Hydraulic Press Mfg. Co.
509 Empire Building
Pittsburgh 22, Pennsylvania

Harry F. Pfann
Pittsburgh Coke & Chem. Co.
Grant Building
Pittsburgh, Pennsylvania

William J. Phillips
Presque Isle Plastics
2730 West 12th Street
Erie, Pennsylvania

James P. Quinn
Quinn-Berry Corp.
2601 West 12th St.
Erie, Pennsylvania

John C. Reib
Shaw Industries, Inc.
Box 591
Franklin, Pennsylvania

Nathaniel R. Reyburn
Applied Plastics
1102 West 12th Street
Erie, Pennsylvania

Francis B. Richardson
4613 Village Street
Erie, Pennsylvania
(Quinn-Berry Corp.)

Edward H. Roberts
General Electric Company
Refrigerator Division
Erie 2, Pennsylvania

Paul C. Roche
Nosco Plastics
Box 269
Erie, Pennsylvania

Leo Schmelzer
Perry Plastics, Inc.
561 East 18th Street
Erie, Pennsylvania

George W. Shaw
Shaw Industries, Inc.
Box 591
Franklin, Pennsylvania

Anthony J. Simons
Shaw Industries, Inc.
Box 591
Franklin, Pennsylvania

Charles J. Snyder
Koppers Company, Inc.
Chemical Division
Koppers Building
Pittsburgh 19, Pennsylvania

John K. Specht
Sylvania Elec. Prods., Inc.
Warren, Pennsylvania

Jerry C. Stokes
Perry Plastics, Inc.
561 East 18th Street
Erie, Pennsylvania

Paul L. Stubbe
Girard Mfg. Co.
Penn Avenue Extension
Girard, Pennsylvania

K. O. Tooker
7156 Meade Street
Pittsburgh 8, Pennsylvania
(Plasticast Models Co.)

Arnold M. Varner
2023 Victory Avenue
Wesleyville, Pennsylvania
(General Electric)

Aaron P. Wagner
Quinn-Berry Corp.
2601 West 12th Street
Erie, Pennsylvania

Howard A. Wagner
Sylvania Elec. Prods., Inc.
825 Lexington Avenue
Warren, Pennsylvania

Louis R. Wanner
Sylvania Elec. Prods., Inc.
825 Lexington Ave.
Warren, Pennsylvania

Robert B. Way
Finish Engr. Co., Inc.
1115 Cherry Street
Erie, Pennsylvania

Charles Williams
Erie Die Company
3952 West 12th Street
Erie, Pennsylvania

R. J. Wilson, Jr.
10 Henry Street
Warren, Pennsylvania
(Sylvania Elec. Prods. Inc.)

Robert R. Wilson
2421 Walnut Blvd.
Ashtabula, Ohio
(Monsanto Chemical Co.)

Walter E. Wright
Koppers Company, Inc.
Chemical Division
Koppers Building
Pittsburgh 19, Pennsylvania

David S. Zahniser
Erie Resistor Corp.
644 West 12th Street
Erie 6, Pennsylvania

PHILADELPHIA

OFFICERS

President

George H. Koch, Jr.
10 East Haddon Ave.
Oaklyn, N. J.
(Oak Engineering)

Vice-President

D. I. Yarnall
212 E. Leamy Ave.
Springfield, Pa.
(Rahm & Haas Co.)

Secretary

James S. Rex
Plastic Center, Inc.
2015 Market Street
Philadelphia 3, Pa.

Treasurer

H. S. Darlington, Jr.
A. H. Wirz, Inc.
2300 West 4th St.
Chester, Pa.

National Director

W. O. Bracken
Hercules Powder Co.
Wilmington, Dela.

Members

Harry L. Acomb
502 Beechtree Lane
Wayne, Pa.
(Polyrez Company)

H. H. Aikens, Jr.
516 W. Wayne Ave.
Wayne, Pa.
(Pennsylvania Box Co.)

Gerard A. Albert
448 West Sickles St.
Kennett Square, Pa.
(Nat'l. Vul. Fibre Co.)

Anthony L. Alesi
R. & D. Labs
Phila. Quartermaster Depot
2800 South 20th St.
Philadelphia, Pa.

T. Bayard Baldridge
Nat'l. Vul. Fibre Co.
1718 Girard Trust Bldg.
Philadelphia 2, Pa.

Leroy T. Barnette
Hercules Powder Company
Wilmington 99, Dela.

J. G. Beasten
Nat'l. Vul. Fibre Co.
1718 Girard Trust Bldg.
Philadelphia 2, Pa.

Philip A. Belk
Hercules Powder Company
914 Delaware Trust Bldg.
Wilmington, Dela.

Ray V. Beshgetoor
RCA Victor Div.
Radio Corp. of America
Camden, N. J.

Oren R. Bingham
Esterbrook Pen Company
Delaware & Cooper Sts.
Camden 1, N. J.

Richard B. Bishop
128 Westmont Ave.
Haddonfield, N. J.
(Socony Vac. Oil Co., Inc.)

L. F. Bornstein
Synvar Corporation
P. O. Box 1752
Wilmington 99, Dela.

William O. Bracken
Hercules Powder Company
Wilmington, Dela.

John D. Brandner
Atlas Powder Company
Wilmington 99, Dela.

Samuel Breskman
2208 Amhurst Rd.
Fairfax, Wilmington, Dela.
(Synvar Corp.)

Ernest B. Brown
R. D. Wood Company
Public Ledger Bldg.
Independence Square
Philadelphia 5, Pa.

Donald T. Brophy
Rohm & Haas Co.
W. Washington Square
Philadelphia 5, Pa.

Frank J. Burke
3600 Highland Ave.
Drexal Hill, Pa.

Howard L. Burpo
54 Maple Ave.
Madison, N. J.
(Bakelite Co.)

A. Arnold Butterworth, Jr.
Dow Chemical Co.
1400 S. Penn Square
Philadelphia, Pa.

Anthony D. Calabro
407 West Chester Pike
Havertown, Pa.
(Calabro Plastics)

George L. Callery
Wilmington Plastics, Inc.
810 South Heald St.
Wilmington, Dela.

John F. Carson
Industrial Machinery
2829 N. Broad St.
Philadelphia, Pa.

William G. Carson
104 S. Carol Blvd.
Upper Darby, Pa.
(Rohm & Haas Co.)

Charles H. Carter, Jr.
Atlas Powder Company
Wilmington 99, Dela.

Herbert R. Clark
Bakelite Co.
1649 North Broad St.
Philadelphia, Pa.

H. Curtis Colby, Jr.
Naugatuck Chemical Co.
Fifth & Locust Sts.
Philadelphia, Pa.

G. B. Culbertson
Box 38
Gladwyne, Pa.
(Allied Barrel Sales Corp.)

H. S. Darlington, Jr.
A. H. Wirz, Inc.
2300 West 4th St.
Chester, Pa.

Charles C. Davis, Jr.
Stokes Trenton, Inc.
P. O. Box 513
150 Enterprise Ave.
Trenton, N. J.

William I. Denton
229 South Warner St.
Woodbury, N. J.
(Socony Vacuum Oil Co.)

Philip A. Derham
Philip A. Derham & Assoc.
Bryn Mawr Theater Bldg.
Bryn Mawr, Pa.

Edward L. Derowski
1104 Van Hook St.
Camden, N. J.
(RCA Victor Div.)

Andrew A. Dukert
314 S. Madison Ave.
Highland Park, Pa.
(Penn Plastics Corp.)

D. D. Dundore
General Plastics
4901 Umbria St.
Philadelphia 27, Pa.

Edmund James Edmunds
Santay Corporation
P. O. Box 6341
Philadelphia 39, Pa.

W. Harold Edmunds
I-T-E Circuit Breaker Co.
19th and Hamilton Sts.
Philadelphia, Pa.

Charles B. Egolf
Rohm & Haas Company
Bristol, Pa.

Edward M. Feeley
1245 East Ave.
Roslyn, Pa.
(Leeds & Northrop Co.)

Lee Finkel
Lee Plastics Co., Inc.
A. & Lippincott St.
Philadelphia, Pa.

Edward J. Fitzpatrick
Internat'l Resistance Co.
401 North Broad St.
Philadelphia 8, Pa.

Benjamin Fox
Elco Corporation
190 West Glenwood Ave.
Philadelphia 40, Pa.

William A. Franta
Pembrey, Faulk Rd.
Wilmington, Dela.
(E. I. duPont deNemours)

Jack R. Freed
Church Road, RD 1
Norristown, Pa.

Carroll S. Fritz
Dentists' Sup. Co. of N. Y.
500 West College Ave.
York, Pa.

Henry A. Fuggiti
1923 W. Allegheny Ave.
Philadelphia 32, Pa.
(Elec. Storage Batt. Co.)

Walter A. Fuller
American Viscose Corp.
35 South 9th St.
Philadelphia 7, Pa.

George E. Gabuzda
Atlas Powder Company
P. O. Box 271
Tamaqua, Pa.

Clarence W. Gault
Hercules Powder Company
900 Market St.
Wilmington, Dela.

C. W. Gayler
Chemstrand Corporation
Pensacola, Florida

Graeff W. Glenn
Marquardt-Glenn Corp.
894 Drexel Building
Philadelphia 6, Pa.

Edwin M. Goldsmith, Jr.
Wynn Mfg. Company
5110 Germantown Ave.
Philadelphia 44, Pa.

J. C. Graf
John C. Graf Co.
1505 Race St.
Philadelphia 2, Pa.

Raymond Haines, Jr.
H.M.S. Associates
7733 Frankford Ave.
Philadelphia 36, Pa.

B. F. Hantz
Amer. Insulator Corp.
New Freedom, Pa.

James P. Harrington
Faulkland Road (RD)
Marshallton, Dela.
(E. I. duPont deNemours)

Antony M. Hekking
Watson-Stillman Co.
Roselle, N. J.

Joseph M. Herbert
Bakelite Co.
Rms. 512-513 Hardt Bldg.
1649 North Broad St.
Philadelphia 22, Pa.

John F. Hicks
107 Waverly Place
Trenton 9, N. J.
(Panelyte Div.-St. Regis Paper Co.)

James R. Hiltner
Rohm & Haas Company
Bristol, Pa.

Joseph M. Hoopes
1407 Delaware Ave.
Wilmington, Dela.
(Synvar Corp.)

Dee A. Hurst
Rohm & Haas Company
222 W. Washington Sq.
Philadelphia 5, Pa.

Allan A. Hutchings
F. J. Stokes Machine Co.
Olney Post Office
Philadelphia, Pa.

John A. Jackson, Jr.
Stokes Molded Prods., Inc.
Taylor St. at Webster
Trenton 4, N. J.

Carl H. Jepson
E. I. duPont deNemours
Experimental Station
Wilmington, Dela.

W. W. Johnson
Borden Company
5000 Summerdale Ave.
Philadelphia 24, Pa.

John A. Keenan
Elec. Storage Battery Co.
Allegheny Ave. & 19th St.
Philadelphia, Pa.

Adolph J. Kissileff
Amplex Mfg. Co.
2325-32 Fairmount Ave.
Philadelphia 30, Pa.

Theo Klebe
513 Montgomery Ave.
Fox Chase
Philadelphia, Pa.
(Moss-Rose Mfg. Co.)

George H. Koch, Jr.
10 E. Haddon Ave.
Oaklyn, N. J.
(Oak Engineering)

John J. Lamb
Radio Corp. of America
RCA Victor Division
Building 7-4
Camden 2, New Jersey

Alfred W. Lauck
125 Redman Ave.
Haddonfield, N. J.
(E. I. duPont deNemours)

John L. Lay
A. H. Wirz, Inc.
2300 West 4th St.
Chester, Pa.

James P. Lindsay
Stonhard Co.
1306 Spring Garden St.
Philadelphia 23, Pa.

John C. Lutz
70 S. Pearl St.
Lancaster, Pa.
(Alphonse Knoedler & Co.)

Gerald H. Mains
Lucky Hill Road
R. F. D. #4
West Chester, Pa.
(Nat'l Vul. Fibre Co.)

William A. Malmberg
2501 Swede St.
Norristown, Pa.
(Continental-Diamond Fibre Co.)

John B. Martin
Hercules Powder Co.
Delaware Trust Bldg.
Wilmington, Dela.

Hans Mayer
Trenton Plas. & Metals Div.
20 Prince St.
Trenton, N. J.

Leonard I. Meisel
Aero. Materials Lab.
Naval Air Experimental Sta.
Naval Base
Philadelphia 12, Pa.

Verne G. Moldt
46 N. Overbrook Ave.
Trenton 8, N. J.
(Panelyte Div.-St. Regis Paper Co.)

George J. Muller
3344 Ainslie St.
Philadelphia 29, Pa.
(Taylor Fibre Co.)

Harold W. Narigan
529 Crown Terrace
Morrisville, Pa.
(Panelyte Div.-St. Regis Paper Co.)

Adin A. Nellis, Jr.
Chemstrand Corp.
Decatur, Alabama

Ernest E. Novotny
1030 Washington Lane
Philadelphia 38, Pa.

A. R. Olsen
Hercules Powder Co.
Wilmington, Dela.

Edward B. Osborne
B. F. Goodrich Chem. Co.
1539 James Road
Ardmore, Pa.

Edward M. Passmore
Rohm & Haas Co.
222 W. Washington Sq.
Philadelphia, Pa.

Robert Platt
F. J. Stokes Machine Co.
5500 Tabor Road
Philadelphia, Pa.

John E. Raven
130 W. Mt. Pleasant Ave.
Mt. Airy
Philadelphia 19, Pa.
(Rohm & Haas Co.)

James Stanley Rex
Plastic Center, Inc.
2015-17 Market St.
Philadelphia, Pa.

Samuel R. Rhoads
R. D. Wood Co.
1072 Public Ledger Bldg.
Philadelphia 5, Pa.

J. D. Rollow, Jr.
General Electric Co.
1405 Locust St.
Philadelphia, Pa.

Theodore Rothschild
Rothschild Pack Plas. Corp.
28 South Bank St.
Philadelphia 6, Pa.

Henry R. Rust
Presstite Engineering Co.
3900 Chouteau Ave.
St. Louis, Missouri

Reimer Schacht
311 S. 51st St.
Philadelphia, Pa.
(Rohm & Haas Co.)

Francis J. Shannahan
Polymer Corp. of Pa.
126 North Fifth St.
Reading, Pa.

E. Roy Shawn
Nat'l. Vul. Fibre Co.
Maryland Ave. & Beech St.
Wilmington 99, Dela.

Howard E. Shearer
321 N. Swarthmore Ave.
Swarthmore, Pa.
(American Viscose Corp.)

C. Bradford Sheppard
Strick Company
Whitaker & Godfrey Ave.
Philadelphia 24, Pa.

John G. Short, Jr.
General Electric Co.
1405 Locust Street
Philadelphia, Pa.

James T. Skelly, Jr.
Hercules Powder Co.
Delaware Trust Bldg.
Wilmington, Dela.

Norman A. Skow
40 Crestline Road
c/o Wayne P.O.
Stafford, Pa.
(Synthane Corp.)

E. E. Smith
Paoli, Pa.
(Synthane Corp.)

George H. Sollenberger
404 E. Wynnewood Rd.
Wynnewood, Pa.

Harold T. Sorensen
Spaulding Fibre Co., Inc.
P.O. Box 676
Camden 1, N. J.

Meyer Sperber
Sperber Company
2300 Frankford Ave.
Philadelphia 34, Pa.

Irvin E. Spirer
Sun Oil Company
1608 Walnut St.
Philadelphia 3, Pa.

Howard S. Stevenson
5511 Hadfield St.
Philadelphia 43, Pa.
(Elec. Storage Battery Co.)

Frederic L. Stiegler
Nat'l. Vul. Fibre Co.
Newark, Dela.

Milton R. Stokes
1611 Wenton Ave.
Havertown, Pa.
(Brandywine Fibre Prods. Co.)

Harold F. Stose
Spring Mill Road
Conshohocken, Pa.

William Strauss
Strauss Engineering Co.
4716 North 2nd St.
Philadelphia, Pa.

Louis F. Street
Welding Engr., Inc.
P.O. Box 391
Norristown, Pa.

Richard V. D. Strong
F. J. Stokes Machine Co.
5930 Tabor Rd.
Philadelphia 20, Pa.

Alvan E. Swaim
R. D. Wood Co.
1072 Public Ledger Bldg.
Philadelphia, Pa.

William R. Sweet
Park Ave.
Hulmeville, Pa.
(Rohm & Haas Co.)

Walter R. Sykes
Sand Road
New Britain, Pa.
(Zenith Plastics Co.)

Charles W. Thomas
Charles W. Thomas Co.
713 Spring Garden St.
Philadelphia, Pa.

Vincent S. Wagner
2173 Pennington Rd.
Trenton, N. J.
(W. T. LaRose & Assoc., Inc.)

Richard E. B. Wakefield
15 North Elm Ave.
(Clifton Hts. P. O.)
Aldan, Pa.
(Shallcross Mfg. Co.)

Francis A. Wegener
H. D. Justi & Son, Inc.
32nd & Spring Garden Sts.
Philadelphia 4, Pa.

Clayton S. Wetzel
115 Walnut Ave.
Wayne, Pa.
(Rohm & Haas Co.)

Alonzo White, III
Wilmington Plastics, Inc.
810 S. Heald St.
Wilmington, Dela.

Quentin M. White
1120 Meetinghouse Rd.
Jenkintown, Pa.
(F. J. Stokes Machine Co.)

Alfred J. Williams
8038 Ferndale St.
Foxchase
Philadelphia 11, Pa.
(Fletcher Works, Inc.)

Robert J. Williams, Sr.
Wilson Products, Inc.
2nd & Washington Sts.
Reading, Pa.

Gardiner C. Wilson
227 West Main Street
Mountville, Pa.
(Armstrong Cork Co.)

William C. Wimmer
Church Road
Titusville, N. J.
(Panelyte Div.—St. Regis Paper Co.)

Paul D. Wolfe
16 Hurst Road
Deerhurst
Wilmington, Dela.
(E. I. duPont deNemours)

D. I. Yarnall
212 East Leamy Ave.
Springfield (Dela. Co.), Pa.
(Rohm & Haas Co.)

QUEBEC

OFFICERS

President

R. Graham Rea
Monsanto (Canada) Ltd.
P.O. Box 6163
Montreal, P. Q., Canada

Vice-President

J. A. Thomas
Dow Chemical Co. of Canada Ltd.
1255 Phillips Square
Montreal, P. Q., Canada

Secretary

John A. Munro
Panelyte Div.-St. Regis Paper Co.
St. John, P. Q., Canada

Treasurer

E. P. Suter
Aviation Elec. Co. Ltd.
3483 Park Ave.
Montreal, P. Q., Canada

National Director

R. Graham Rea
Monsanto (Canada) Ltd.
P.O. Box 6163
Montreal, P. Q., Canada

Members

E. Peter Hersey
Plastics & Chemicals Ltd.
637 Craig St., W.
Montreal, P. Q., Canada

Stanley K. Johns
Modern Mold. Plas. Ltd.
327 St. James St.
St. John, P. Q., Canada

Frederick L. Kirchner
Hale Brothers, Ltd.
6222 Chambord St.
Montreal, P. Q., Canada

A. Klumpp
3781 Notre Dame, W.
Apt. #1
Montreal, P. Q., Canada
(Canadian Buttons, Ltd.)

L. W. Knell
118 Belmont Ave.
Ottawa, Ontario, Canada
(North American Cyanamid Ltd.)

George H. Martin
Canadian Industries, Ltd.
Confederation Bldg.
Montreal, P. Q., Canada

John Alexander Munro
Panelyte Div.-St. Regis Paper Co.
St. John, P. Q., Canada

Robert Graham Rea
Monsanto (Canada) Ltd.
P.O. Box 6163
Montreal, P. Q., Canada

R. J. Southwell
Canadian Resins & Chemicals Ltd.
600 Dorchester St., W.
Montreal, P. Q., Canada

Ernest Paul Suter
Aviation Electric Ltd.
3483 Park Ave.
Montreal, P. Q., Canada

RHODE ISLAND & S. E. MASSACHUSETTS

OFFICERS

President

Robert Feuchter
Cranston Molding Co.
16 Manhasset St.
Cranston, R. I.

Vice-President

Samuel Caidin
Miller Electric Co.
120 Main St.
Pawtucket, R. I.

Secretary

Samuel Caidin
Miller Electric Co.
120 Main St.
Pawtucket, R. I.

Treasurer

Bertram Brown
Rosbro Plastics Corp.
34-50 Ormsbee Ave.
Providence, R. I.

National Director

Richard Bruce
Bakelite Co.
410 Asylum St.
Hartford, Conn.

Members

Leo J. Abisch
Super Products Co.
156 Pine St.
Providence 3, R. I.

Joseph R. Allard
Royal Electric Co.
95 Grand Ave.
Pawtucket, R. I.

Hugold Anderson, Jr.
75 Weetamoe Dr.
Edgewood 5, R. I.
(Hugold Anderson, Inc.)

Arthur H. Barrowman
A. H. Barrowman, Inc.
15 Bailey St.
Attleboro, Mass.

Morris Baruch
Elkoid Co.
756 Eddy St.
Providence, R. I.

Sidney E. Berger
22 Taylor St.
Providence 7, R. I.
(U. S. Rubber Co.-Bristol Plant)

Edward J. Boudreau
New England Tool Co.
64 Floral St.
Taunton, Mass.

Howard C. Boyden
Cowan-Boyden Corp.
50 Aleppo St.
Providence, R. I.

Richard B. Boynton
General Electric Co.
336 Weir St.
Taunton, Mass.

Bertram M. Brown
Rosbro Plastics Corp.
34-50 Ormsbee Ave.
Providence, R. I.

Richard H. Bruce
Bakelite Co.
410 Asylum St.
Hartford 3, Conn.

Samuel Caidin
Miller Electric Co.
120 Main St.
Pawtucket, R. I.

Jesse H. Caton
Spools, Inc.
283 Allens Ave.
Providence 5, R. I.

Roland E. Chamberland
163 School St.
Taunton, Mass.

Walter Charboneau
Plastic Mold & Engr.
157 Clifford St.
Providence, R. I.

Charles Chrones
145 Sayles Avenue
Pawtucket, R. I.

Donald F. Clash
Royal Electric Co.
95 Grand Ave.
Pawtucket, R. I.

Lawrence H. Cook
Lawrence H. Cook, Inc.
65 Massasoit Ave.
East Providence 14, R. I.

Clifton J. Cowan
Cowan-Boyden Corp.
50 Aleppo St.
Providence 9, R. I.

Michael Dmytryshyn
Precision Mold Co.
14 Daisy St.
Providence 8, R. I.

William J. Dunnican
352 Plymouth Rd.
Union, N. J.

Sigurd A. Eliason
C. & M. Plastic Co.
112 Point St.
Providence, R. I.

Thomas C. Fetterman
Halowax Div.-Union Carbide & Carbon
30 East 42nd St.
New York 17, N. Y.

Robert J. Feuchter
Cranston Molding Co.
16 Manhasset St.
Cranston, R. I.

George E. Forsberg
21 Hadwen Lane
Worcester, Mass.
(Surprenant Mfg. Co.)

Lynwood H. French
Pleasant St.
Assonet, Mass.
(General Electric Co.)

Ernest E. Griffith
25 Peck St.
Attleboro, Mass.
(Standard Plastics Co.)

Arthur N. Grossberg
Plastimold Corp.
61 Union St.
Attleboro, Mass.

Robert C. Hoer
Cowan-Boyden Corp.
50 Aleppo St.
Providence, R. I.

Rudolph L. Jacob
124 Wentworth Ave.
Providence, R. I.
(Cranston Molding Co.)

J. Robert Johnson
Monsanto Chemical Co.
Springfield, Mass.

Bernard I. Kahn
101 Knollwood Ave.
Cranston, R. I.

Emil J. Kleiner
General Electric Co.
336 Weir St.
Taunton, Mass.

John P. Lombardi
Emhardt Mfg. Co.
93 Water St.
Stonington, Conn.

Urbain J. H. Malo
The Crescent Co., Inc.
20 Central Ave.
Pawtucket, R. I.

J. E. Marshall, Jr.
Collyer Ins. Wire
Pawtucket, R. I.

J. Vincent McBride
Plas. Wire & Cable Corp.
Jewett City, Conn.

Howard S. Mott
Middleboro Molding Corp.
Peace Dale, R. I.

Frederick V. Murphy, Jr.
79 Bank St.
Attleboro, Mass.
(Standard Plastics Co.)

Brandt F. Nelson
66 Fairfield Rd.
Cranston, R. I.
(Celanese Corp. of Amer.)

Arnold E. Oakes
P.O. Box 382
6 Herr Ave.
Taunton, Mass.
(Modern Plastics, Engr.)

Louis Robbins
70 Waldon St.
Pawtucket, R. I.
(Hassenfeld Bros., Inc.)

Albert F. Robert
Firestone Rubber & Latex Prods.
1 Firestone Ave.
Fall River, Mass.

James A. Roberts
Rosbro Plastics Corp.
34 Ormsbee St.
Providence, R. I.

Edward I. Rose
381 Cole Ave.
Providence, R. I.
(Plastic Engr. Co.)

C. Thomas St. James
Modern Plas. Engr. Corp.
North Ave.
Taunton, Mass.

Edward C. Scanlon
Plastic Mold & Engr. Co.
157 Clifford St.
Providence, R. I.

Victor C. Silva
New England Tool Co.
64 Floral St.
Taunton, Mass.

Roy M. Slipp
37 Freeman St.
Attleboro Falls, Mass.
(Plastic Developments, Inc.)

John R. Sloane
Sloane Plastics Co.
21 Depot Square
Lexington, Mass.

John B. Stenberg
Plastimold Corp.
61 Union St.
Attleboro, Mass.

K. E. Birger Stenberg
Plastimold Corp.
61 Union St.
Attleboro, Mass.

Michael M. Suba
Bakelite Co.
410 Asylum St.
Hartford, Conn.

Anthony Terpak
Modern Plas. Engr. Corp.
North Ave.
Taunton, Mass.

Everett B. Zellen
Montrose Prods. Co., Inc.
41 Jackson St.
Worcester, Mass.

ROCHESTER

OFFICERS

President

C. P. Van Epps
305 Hurstburne Rd.
Rochester, N. Y.
(Stromberg Carlson Co.)

Vice-President

Ernest Goral
34 Reynolds St.
Rochester, N. Y.
(Stromberg Carlson Co.)

Secretary-Treasurer

Carmen Giannotta
477 Weidel Road RD #3
Webster, N. Y.
(Eastman Kodak Co.)

National Director

Gerard Delaire
121 Buckland Ave.
Rochester, N. Y.
(Eastman Kodak Co.)

Members

Harold F. Bardwell
T. F. Butterfield, Inc.
1048 Sibley Tower Bldg.
Rochester 4, N. Y.

Robert B. Battersby
176 Lake Ave.
Auburn, N. Y.
(Auburn Button Works)

John H. Beach
Northern Indus. Chem. Co.
211 Powers Bldg.
Rochester 14, N. Y.

Hugo G. Becker, Jr.
Crucible Steel Co. of America
P.O. Box 977
Syracuse 1, N. Y.

Paul U. Braman
Eastman Kodak Co.
343 State St.
Rochester 4, N. Y.

Harvey M. Bryans
Harco Industries, Inc.
20 Curtice St.
Rochester 5, N. Y.

Edwin J. Bullough
Mica Insulator Co.
817 Commerce Bldg.
Rochester 4, N. Y.

Eugene C. Cathcart
Tennessee Eastman Corp.
343 State St.
Rochester 4, N. Y.

Kenneth W. Coates
455 Mount Vernon Ave.
Rochester 20, N. Y.
(Plastic Service Corp.)

Herbert B. Collins, Jr.
Harwood Molded Plas., Inc.
Fairport Road
East Rochester, N. Y.

Gordon F. Connelly
446 Britton Rd.
Rochester 16, N. Y.
(Eastman Kodak Co.)

Irvin E. Copland
Monroe Plastics Co., Inc.
100 Bickford St.
Rochester 6, N. Y.

Francis P. Curry
526 Spencer Rd.
Rochester 9, N. Y.
(Bausch & Lomb Optical Co.)

Gerard V. Delaire
121 Buckland Ave.
Rochester, N. Y.
(Eastman Kodak Co.)

Carl H. Dickman
Consolidated Molded Prods.
319 Cherry St.
Scranton, Pa.

Nathan Dinion
Caledonia Electronics Transformer Corp.
P.O. Box 338
Caledonia, N. Y.

J. H. Ehrhardt
The Richardson Co.
1031 Sibley Tower Bldg.
Rochester 4, N. Y.

George F. Erdle
Erdle Mfg. Co.
46 Latta Rd.
Rochester, N. Y.

Carman R. Giannotta
477 Weidel Rd. RD #3
Webster, N. Y.
(Eastman Kodak Co.)

Ernest W. Goral
34 Reynolds St.
Rochester 8, N. Y.
(Stromberg Carlson Co.)

Joseph Grabowski
36 Mineola St.
Rochester 11, N. Y.
(American Cyanamid Co.)

Henry J. Gysel
578 Lake Shore Blvd.
Rochester, N. Y.
(Brighton Plastics Co.)

Lewis E. Hamel
Lewis E. Hamel Co., Inc.
251 St. Paul St.
Rochester 4, N. Y.

Richard L. Hayes
Ontario Plastics, Inc.
2503 Dewey Ave.
Rochester 13, N. Y.

Marco Hecht
General Products Corp.
Union Spring, N. Y.

Herschel L. Henry
Tri-Line Corp.
135 Spring St.
Rochester 8, N. Y.

Horace E. Holliday
(No Address)

G. Donald Hollinshead
30 Rosecroft Dr.
Rochester, N. Y.

Alex Holstein, Jr.
Syracuse Ornamental Co.
581 South Clinton St.
Syracuse, N. Y.

Vernon M. Howe
Eastman Kodak Co.
343 State St.
Rochester 4, N. Y.

Jacques S. Kasiner
317 Eaglehead Rd.
East Rochester, N. Y.
(Precision Fab., Inc.)

Henry J. Kauth
Viking Resin Prods. Co.
Waverly, N. Y.

Charles F. Lennon
16 Bateau Terrace
Rochester, N. Y.
(Eastman Kodak Co.)

Fred F. Lippa
325 Verona St.
Rochester, N. Y.
(Eastman Kodak Co.)

Horace Lloyd
Eastman Kodak Co.
343 State St.
Rochester 4, N. Y.

Lawrence M. Loveless
170 Merwin Ave.
Rochester 9, N. Y.

William T. Manning
730 Allen Creek Rd.
Rochester 18, N. Y.
(Don Manning & Co.)

Garson Meyer
Eastman Kodak Co.
333 State St.
Rochester 4, N. Y.

George A. Neward
209 Cornwall Lane
Rochester, N. Y.
(Mohawk Tool & Die Co.)

Edwin F. Palmer
4048 W. Henrietta Rd.
Henrietta, N. Y.
(Stromberg Carlson Co.)

Rodney S. Perry
Eastman Kodak Co.
Kodapak Lab. Bldg. 35
Kodak Pk.
Rochester, N. Y.

Arthur F. Pundt
151 Avenue C.
Point Pleasant, N. Y.
(Eastman Kodak Co.)

Floyd Redmond
Garlock Packing
Palmyra, N. Y.

Francis W. Reynolds
International Bus. Mach.
Endicott, N. Y.

Milton H. Rice
General Prods. Corp.
Union Springs, N. Y.

Frank Rohrbaugh
Westplex Corp.
12 Commercial St.
Rochester, N. Y.

A. W. Schmitz
Elec. Auto-Lite Co.
&
Taylor Fibre Co.
82 St. Paul St.
Rochester 4, N. Y.

Charles L. Seay
Tennessee Eastman Corp.
343 State St.
Rochester, N. Y.

Donald L. Simpson
Monroe Plastics Co.
100 Bickford St.
Rochester, N. Y.

John F. Spitznagel
Ontario Plastics, Inc.
2503 Dewey Ave.
Rochester 13, N. Y.

Harry V. Steele
Auburn Button Works
48 Canoga St.
Auburn, N. Y.

James I. Taylor
1006 Howard St.
Utica, N. Y.

Merton R. Turrell
15 Bristol Ave.
Auburn, N. Y.

Clarence Van Epps
Stromberg-Carlson Co.
100 Carlson Rd.
Rochester 3, N. Y.

C. Norman Wade
Nat'l. Vulcanized Fibre Co.
725 Powers Bldg.
Rochester, N. Y.

Joseph J. Walczak
694 Parsells Ave.
Rochester, N. Y.
(Econo Products, Inc.)

Ralph C. Walsh
4599 Mt. Read Blvd.
Rochester 12, N. Y.
(Bausch & Lomb Optical Co.)

Charles J. Williams
Nat'l. Vulcanized Fibre Co.
725 Powers Bldg.
Rochester 4, N. Y.

Robert F. Williams, Jr.
Eastman Kodak Co.
Bldg. 46 Kodak Park
Rochester 4, N. Y.

Charles C. Winding
School Chem. Engr.
Olin Hall Cornell Univ.
Ithaca, N. Y.

C. Burton Wing
Savre, Pa.
(Plaskon Div.-L.O.F. Glass Co.)

John H. Woodruff
Auburn Button Works
48 Canoga St.
Auburn, N. Y.

Ralph E. Wright
24 Homer St.
Union Springs, N. Y.
(General Prods. Corp.)

Norbert G. Zink
Ontario Plastics, Inc.
2503 Dewey Ave.
Rochester, N. Y.

SAINT LOUIS

OFFICERS

President

A. J. Koller
Koller-Craft Plastic Prods., Inc.
Fenton, Mo.

Vice-President

C. D. Kacalieff
Chris-Kay Plastics Co.
1202 Madison Ave.
Madison, Ill.

Secretary

A. G. Werner
3650 Dover Place
St. Louis, Mo.

Treasurer

G. F. Mangin
Cinch Mfg. Corp.
2625 Locust St.
St. Louis, Mo.

National Director

Dan Otto
Plastic Parts & Sales
1157 S. Kinghighway
St. Louis 10, Mo.

Members

C. David Auman
Amer. Fixture & Mfg. Co.
2300 Locust St.
St. Louis, Mo.

William N. Bachman
Plastics Molding Co.
4301 N. 11th St.
St. Louis, Mo.

Francis J. Beine
A. Schulman, Inc.
P.O. Box 244
East St. Louis, Ill.

Charles Blackburn
(No Address)

John R. Brown, Jr.
Lambert Pharmacal Co.
2117 Franklin
St. Louis, Mo.

Alvin W. Brust
Washington University
Box 83
Skinker & Lindell Blvds.
St. Louis 5, Mo.

Walter P. Bussart
Tennessee Eastman Corp.
2000 Continental Bldg.
St. Louis 8, Mo.

E. E. Chamberlin
23 Parkland Ave.
Glendale 22, Mo.
(Dow Chemical Co.)

C. Todd Clark
5440 Clemens Ave.
St. Louis 12, Mo.
(F. Burkart Mfg. Co.)

Francis J. Coates
9130 Leonora Ave.
St. Louis 21, Mo.
(Moehlenpah Engr., Inc.)

Dwight W. Cope
Plastic Parts & Sales
1157 S. Kingshighway Blvd.
St. Louis, Mo.

Albert D. Dilthey
5209 Terry Avenue
St. Louis, Mo.
(Cinch Mfg. Corp.)

Mitchell G. Duncan
7048 Northmoor Dr.
Clayton, Mo.
(Taylor Fibre Co.)

Arthur D. Evans, Jr.
(In U. S. Army)

John E. Ferguson
AVSCO, Incorporated
4505 State Line
Kansas City 2, Mo.

A. J. Gerber
Gerber Plastic Co.
308 S. Eighth St.
St. Louis, Mo.

Frank Gollub
Dennis Chemical Co.
2701 Papin
St. Louis 3, Mo.

Karl Gottschalk, Jr.
3644A Dunnica Ave.
St. Louis 16, Mo.
(Hellmich Plastic Co.)

Joseph J. Grant
J. Grant & Co.
4030 Chouteau
St. Louis 10, Mo.

Floyd S. Green
Frank Adams Elec.
P.O. Box 357
3650 Windsor Place
St. Louis, Mo.

Richard S. Hawes, III
K-S-H Plastics, Inc.
Highway 30
High Ridge, Mo.

Edward J. Hellmich
Hellmich Mfg. Co.
1610 Hampton Ave.
St. Louis 10, Mo.

Sylvester H. Hertlein
5672 Eichelberger Ave.
St. Louis 9, Mo.

William R. Hill
AVSCO, Incorporated
4505 State Line
Kansas City, Mo.

E. Gent Johannes
Mineral Products Co.
2440 Kosciusko
St. Louis 4, Mo.

William A. Juenger
15 West J. Street
Belleville, Ill.
(Owens-Corning Fiberglas Corp.)

C. D. Kacalieff
Chris-Kay Plastics Co.
1202 Madison Ave.
Madison, Ill.

George A. Kelley
Antonia Rd. & Highway 21
Kimmswick Rt. 2, Mo.

Frank C. Kenyon, Jr.
3615 Olive St.
St. Louis 8, Mo.
(Dow Chemical Co.)

R. W. Kerr
R. W. Kerr Plastic Co.
220-222 S. Burlington Ave.
Hastings, Nebr.

Robert W. Klorer
Spaulding Fiber Co.
34 North Brentwood
St. Louis, Mo.

H. Raymond Koch
Koch Mfg. Co.
319 W. Main St.
Jackson, Mo.

A. J. Koller
Koller-Craft Plastic Prods., Inc.
Fenton, Mo.

Karl Kopplin
7645 Florissant Rd.
St. Louis 21, Mo.
(Kopplin Molding Corp.)

Lawrence L. Ladd
Presstite Engr. Co.
3738 Chouteau Ave.
St. Louis, Mo.

Milton H. Larson
Amer. Fixture & Mfg. Co.
2300 Locust St.
St. Louis 3, Mo.

Gerard F. Mangin
Cinch Mfg. Corp.
2625 Locust St.
St. Louis 3, Mo.

Robert S. McDorman
103 Park Ave.
Kirkwood 22, Mo.

Frank Niehaus
J. E. Niehaus & Co.
4034 Washington Blvd.
St. Louis 8, Mo.

Dan E. Otto
Plastic Parts & Sales
1157 S. Kingshighway
St. Louis 10, Mo.

Harry R. Pancoast
Continental-Diamond Fibre Co.
6635 Delmar Blvd.
St. Louis 5, Mo.

Jack W. Porte
Monsanto Chemical Co.
1700 S. Second St.
St. Louis, Mo.

C. W. Pralle
Allied Plasti-Lite Enterprises, Inc.
2714 LaSalle St.
St. Louis 4, Mo.

Stanley W. Pueser
Teepee Plastics, Inc.
1605 Tower Grove Ave.
St. Louis, Mo.

A. Daniel Reisert
Lincoln Engineering Co.
5701 Natural Bridge Ave.
St. Louis 20, Mo.

Alex Reynolds
Wm. S. Richards Co.
No. 2 S. Brentwood
St. Louis 5, Mo.

J. Wilfred Richardson
Rohm & Haas Corp.
503 Midland Bldg.
1221 Baltimore Ave.
Kansas City, Mo.

Richard J. Savage
Parmelee Plastics Co.
1215 McKee
Kansas City, Mo.

F. R. Seavey
928 Main St.
Alton, Ill.
(Western Cartridge Co.)

Julius Seiler
K-S-H Plastics, Inc.
Highway 30
High Ridge, Mo.

W. James Sharbaugh
926 Buena Vista Ave.
St. Louis 5, Mo.
(Lambert Plas. Prods. Co.)

O. B. Sherman
5008 W. 72nd St.
Kansas City 15, Mo.

W. D. Singleton
(In Armed Services)

William J. Stephens, Jr.
The Carpenter Steel Co.
712 Cass Avenue
St. Louis 6, Mo.

Paul S. Sussenbach
9411 White Ave.
St. Louis 17, Mo.
(Presstite Engr. Co.)

Carl J. Tabor
Tires, Inc.
3401-05 Gravois
St. Louis, Mo.

Robert W. Topham
5009 West 56th St.
Mission, Kansas
(Rohm & Haas Co.)

Donald A. Voorhies
Hussman-Ligonier Co.
2401 N. Leffingwell
St. Louis, Mo.

A. G. Werner
3650 Dover Place
St. Louis, Mo.

John G. Wetzel
9146 Ramona Ave.
St. Louis 21, Mo.

Philip W. Wood
K-S-H Plastics, Inc.
High Ridge, Mo.

Otto Wulfert
Wagner Electric Co.
6400 Plymouth Ave.
St. Louis 14, Mo.

SOUTHEASTERN OHIO

OFFICERS

President

Leonard Monaco
Shellmar Products Corp.
Zanesville, Ohio

Vice-President

J. W. Knight
Fabri-Form Co.
Byesville, Ohio

Secretary

Paul M. Smith
Cambridge Tool & Die
677 Marietta Ave.
Cambridge, Ohio

Treasurer

J. A. Verburg
Continental Can Co.
Cambridge, Ohio

National Director

M. J. Petretti
Continental Can Co.
Cambridge, Ohio

Members

Frank H. Bailey
1013 N. Seventh St.
Cambridge, Ohio

Robert W. Beaver
607 N. 10th St.
Cambridge, Ohio

Robert E. Bescherer
504 N. Ninth St.
Cambridge, Ohio

Jack Bromley
Jax Plastics, Inc.
273 Main St.
Byesville, Ohio

F. C. Burkhart
The Fabri-Form Co.
Byesville, Ohio

M. W. Burkhart
Lincoln Plastics Corp.
Burgess & 14th Avenue
Cambridge, Ohio

James M. Callihan
Continental Can Co., Inc.
Cambridge, Ohio

John Chomicz
General Electric Co.
Coshocton, Ohio

Lester M. Dickson
Grandview Heights RD #3
Cambridge, Ohio
(Cambridge Tool & Die)

George N. Edwards
The Ohio Plastic Co.
Frazeysburg, Ohio

Charles M. Fields
Shellmar Products Corp.
Zanesville, Ohio

James Hoag
183 Second St.
Byesville, Ohio
(Meridian Plastics)

Eli Jensen
Cambridge Mold. Plas. Co.
Cambridge, Ohio

Clarence H. Kehl
Moore Enameling Mfg. Co.
West Lafayette, Ohio

J. W. Knight
The Fabri-Form Co.
Byesville, Ohio

Richard M. Lane
Hillcrest R.R. #5
Cambridge, Ohio

Leonard Monaco
Shellmar Products Corp.
Zanesville, Ohio

Ernest L. Oehling
910 Evans Avenue RD 5
Mansfield, Ohio
(Hydraulic Press Mfg. Co.)

Paul Osterberg
Cambridge Mold. Plas. Co.
Cambridge, Ohio

Curtis R. Pardee
Crucible Steel Co.
1258 E. 55th St.
Cleveland 3, Ohio

Mario J. Petretti
1123 Stewart Ave.
Cambridge, Ohio
(Continental Can Co.)

Earl J. Riehl
Cambridge Molded Plastics
Cambridge, Ohio

Paul M. Smith
Cambridge Tool & Die Co.
677 Marietta Avenue
Cambridge, Ohio

George A. Stein
1119 Steubenville Ave.
Cambridge, Ohio
(Continental Can Co.)

William J. Stranathan
Box 261
Pleasant City, Ohio
(Cambridge Tool & Die)

George S. Velimesis
General Electric Co.
Coshocton, Ohio

John A. Verburg
Continental Can Co.
Cambridge, Ohio

James A. Weyer
736 Wheeling Drive
Cambridge, Ohio

E. Edward Wray
The Fabri-Form Co.
254 W. Main St.
Byesville, Ohio

Louis M. Wuest
Lincoln Plastics Corp.
Burgess & 14th St.
Cambridge, Ohio

SOUTHERN CALIFORNIA

OFFICERS

President

C. C. Booth
Formica Company
1151 Santee Street
Los Angeles 15, Calif.

Vice-President

Dale McDonald
Reinhold & Geiger Plastics
8763 S. Crocker Ave.
Los Angeles 3, Calif.

Secretary-Treasurer

L. E. Tallman
Dow Chemical Company
900 Wilshire Blvd.
Los Angeles, Calif.

National Director

Willard Lundberg
5523 Newcastle Ave.
Encino, Calif.
(Plastex Corporation)

Members

John A. Alesi
Pacific Electricord Co.
P.O. Box 15805
Crenshaw Station
Los Angeles 8, Calif.

Herbert C. Baker
902 W. Daurte Road
Monrovia, Calif.
(Koppers Co., Inc.)

Wayne M. Becker
8826 Murietta
Panorama City
Van Nuys, Calif.

Vitial Bogdal
750 S. Mansfield Ave.
Los Angeles 36, Calif.
(Houston Fearless Corp.)

Clinton C. Booth
Formica Company
1151 Santee St.
Los Angeles 15, Calif.

Lee T. Bordner
10376 Ashton Blvd.
Los Angeles 24, Calif.
(Sierra Elec. & Mfg. Co.)

Raymond E. Brady
1511 N. Holliston Ave.
Pasadena 6, Calif.
(E. I. duPont deNemours)

Edward F. Broeski
1221 Griffith Park Drive
Burbank, Calif.
(Production Models Shop)

M. B. Crawford, Jr.
5138 Parkglen Ave.
Los Angeles 43, Calif.
(U. S. Rubber Co.)

V. Thomas Crowley
315 East Francis St.
La Habra, Calif.

Harold F. Dague
Collins Caldwell & Dague
2455 E. 57th St.
Los Angeles 58, Calif.

Lawrence R. Dallett
4933 El Molino Ave.
Riverside, Calif.
(Hunter Douglas Corp.)

Thomas Dean Daniels
General Electric Co.
1052 W. Sixth St.
Los Angeles 17, Calif.

Elbert Davis
5244 Strohm Ave.
North Hollywood, Calif.
(Plas-Kem Corp.)

Milo Dellmann
South Gate Tool Engr. Co.
8142 State St.
South Gate, Calif.

John Delmonte
Furane Plastics
719 W. Broadway St.
Glendale 4, Calif.

Paul A. Erskine
Owens-Corning Fiberglas
3445 W. 8th Street
Los Angeles, Calif.

Robert L. Finch
Gem Plastics Co.
6014 W. Washington Blvd.
Culver City, Calif.

George Foldvary
International Plastics
Indus. Corp.
950 Cahuenga Blvd.
Hollywood 38, Calif.

Michael J. Goffa
Bert M. Morris Co.
8651 West 3rd St.
W. Los Angeles, Calif.

W. Brandt Goldsworthy
Industrial Plastics Corp.
1526 W. 166th St.
Gardena, Calif.

William H. Gottschalk
Falcon Plastics
6020 W. Washington Blvd.
Culver City, Calif.

Robert J. Grasley
1810 Olive Street
Santa Barbara, Calif.

Otto A. Hansen
3317 Cabrello Blvd.
Venice, Calif.
(Northrop Aircraft)

Austin H. Herbst
Irvington Varnish &
Insulator Co.
278 N. Arden Drive
El Monte, Calif.

Carl L. Hill
4423 Alpha St.
Los Angeles 32, Calif.
(Paramount Paint &
Lacquer Co.)

Tonnie A. Hoyle
B. F. Goodrich Chemical Co.
714 W. Olympic Blvd.
Los Angeles 15, Calif.

George R. Huisman
4450 W. 62nd St.
Los Angeles 43, Calif.
(Plexolite Corp. of Calif.)

Walter H. Kadlec
E. I. duPont deNemours
845 E. 60th Street
Los Angeles 1, Calif.

Maxmillion Karb
California Moulders, Inc.
814 E. 29th St.
Los Angeles 11, Calif.

Richard A. Kaumeyer
23088 Battelle
Hazel Park, Michigan
(North American Aviation)

John F. Kelley
1212 S. Euclid Ave.
Pasadena 5, Calif.
(Holmes & Narner)

Rubin Klinger
Molders Service Co.
P.O. Box 1065
3500 Holmes Ave.
Culver City, Calif.

Leon A. Loewenthal
Peerless Plastics
8490 Warner Drive
Culver City, Calif.

Willard G. Lundberg
5523 Newcastle Ave.
Encino, Calif.
(Plastex Corp.)

Erich Marx
Marplex Co.
P.O. Box 37
348 Washington St.
El Segundo, Calif.

Dale McDonald
Reinhold & Geiger Plastics
8763 S. Crocker St.
Los Angeles 3, Calif.

M. Scott Moulton
207 La Marina
Santa Barbara, Calif.
(Santa Barbara Plastics)

Gaylord E. Nichols
Bakelite Co., Div.
Union Carbide & Carbon
2770 Leonis Blvd.
Los Angeles 17, Calif.

Stan Peters
Doddridge-Peters & Assoc.
1711 W. 135th St.
Gardena, Calif.

Joseph B. Potoczky
9621 McNerney Ave.
South Gate, Calif.
(Peerless Mold Plas., Inc.)

James C. Prior
Sierra Elec. & Mfg. Co.
544 E. 31st St.
Los Angeles 11, Calif.

A. A. Ray
Ray Products, Inc.
703 S. Palm Avenue
Alhambra, Calif.

Kenneth W. Raymond
General Electric Co.
1052 W. 6th Street
Los Angeles 17, Calif.

Michael W. Sausse
Western Molders Sup. Co.
636 N. Robertson Blvd.
Los Angeles 46, Calif.

Kenneth W. Spillman
Kimberly Corp.
8476 Warner Drive
Culver City, Calif.

Raymond B. Stringfield
229 S. Normandie Ave.
Los Angeles 4, Calif.
(Fullerton Mfg. Co.)

Louis E. Tallman
Dow Chemical Co.
900 Wilshire Blvd.
Los Angeles, Calif.

Sam Tash
Hollywood Toy Studios
3450 Foothill Blvd.
La Crescenta, Calif.

Barton H. Thompson
338 S. Dalehurst Ave.
Los Angeles 24, Calif.
(Dura Flex Co.)

Ray Vaccarello
Gem Plastics Co.
6014 Washington Blvd.
Culver City, Calif.

Sam Vaccarello
Gem Plastics Co.
6014 Washington Blvd.
Culver City, Calif.

Paul S. Weersing
Mutual Industries
1027 Seward Street
Los Angeles 38, Calif.

Morris Weinberg
2847 Malcolm
W. Los Angeles 64, Calif.

Robert L. Whann
North American Aviation
International Airport
Los Angeles 45, Calif.

Erven White
Owens-Corning Fiberglas
3445 W. 8th Street
Los Angeles 5, Calif.

Samuel Windman
Windman Borthers
3325 Union Pacific Ave.
Los Angeles 23, Calif.

Kenneth W. Woodson
Permalite Plastics Co.
4304 Firestone Blvd.
South Gate, Calif.

John H. Wyckoff
3838 Multiview Dr.
Hollywood 28, Calif.
(Aero Plastics Co.)

A. C. "Al" Young
Libbey-Owens-Ford
Glass Co.
905 Architects Bldg.
816 W. Fifth St.
Los Angeles 17, Calif.

SOUTH TEXAS

OFFICERS

President

Carl J. Eckenrod
Wright Mfg. Co.
P.O. Box 6567
5201 Post Oak Rd.
Houston 5, Texas

Vice-President

A. F. Fukal
3752 Tangley Rd.
Houston 5, Texas
(Fred & Lillian Fukal)

Secretary-Treasurer

Charles E. Shepherd
604 Willard St.
Houston 5, Texas
(Industrial Plas. Mfg. Co.)

National Director

Carl J. Eckenrod
Wright Mfg. Co.
P.O. Box 6567
5201 S. Post Oak Rd.
Houston 5, Texas

Members

Marion A. Arthur
Humble Oil & Refining Co.
209 Humble Bldg.
Houston 5, Texas

Leonard D. Blackwell
Blackwell Plas. Mold. Co.
401-67th Street
Houston 11, Texas

Dan E. Bloxsom
Southwestern Plastics Co.
1719 Live Oak
Houston, Texas

F. L. Chalmers
Vector Mfg. Co.
5616 Lawndale
Houston 3, Texas

H. Lewis Collins
Corrulux, Inc.
Box 110366
Houston, Texas

Lewis B. Connelly
Tennessee Eastman Co.
1001 State National Bldg.
Houston, Texas

L. Lloyd Dintiman
604 Milam Ave.
La Marque, Texas
(Carbide & Carbon Chems. Corp.)

R. D. Dunlop
Monsanto Chemical Co.
Texas City, Texas

Carl J. Eckenrod
Wright Mfg. Co.
P.O. Box 6567
5201 Post Oak Rd.
Houston 5, Texas

Alfred F. Fukal
3752 Tangley Road
Houston 5, Texas
(Fred & Lillian Fukal)

Eugene W. Hanszen
Carbide & Carbide Chems.
Box 471
Texas City, Texas

L. D. Harvey
2225 Collier St.
Houston, Texas
(Dow Chemical Co.)

Horace S. Henderson
Dow Chemical Co.
Bldg. B-2008
Texas Division
Freeport, Texas

William Hungate
Universal Products, Inc.
6918 Lindberg St.
P.O. Box 12236
Houston 17, Texas

Richard L. Maneval
Rt. 11 Box 2296A
Houston 16, Texas
(Humble Oil & Refining)

Newton McFadyen
4117 Tennyson St.
Houston 5, Texas
(Sears Roebuck & Co.)

Raymond W. Meyer
1906 Carroll Drive
Houston 25, Texas
(Corrulux Corp.)

George S. Nalle, Jr.
Nalle Plastics, Inc.
108-110 West 2nd St.
Austin 22, Texas

Jim Pinkston
Texall Products Co.
3 Asbury Place
Houston 7, Texas

Morris Sandel, Jr.
Vector Mfg. Co.
5616 Lawndale Dr.
Houston, Texas

Kiyoshi Sandow
P.O. Box 9123
Houston 11, Texas

Robert L. Servis
Haylett-O'Neill
2510 Travis
Houston, Texas

Phil Shay
2423 W. Main St.
Houston 6, Texas
(Consultant)

Charles E. Shepherd
604 Willard
Houston, Texas
(Industrial Plas. Mfg. Co.)

James A. Sinclair
McArdle Equipment Co.
P.O. Box 1304
Houston 11, Texas

H. L. Thompson
H. L. Thompson Co.
414 Esperson Bldg.
Houston, Texas

Burton W. Wallin
M. K. Griggs Co.
2801 San Jacinto
Houston 4, Texas

Thomas A. Wilker
Carbide & Carbon Chems.
P.O. Box 471
Texas City, Texas

Lewis C. Williams
L. C. Williams & Assoc.
516 Northwood St.
Houston 9, Texas

TOLEDO

OFFICERS

President

William E. Fillmore
Owens-Illinois Glass Co.
14th & Adams Sts.
Toledo, Ohio

Vice-President

D. E. Cordier
2618 Brookford Dr.
Toledo, Ohio
(Plaskon Div. L.O.F. Glass Co.)

Secretary

D. R. Bowlin
K. & M. Machine Co.
3128-40 Bellevue Rd.
Toledo 6, Ohio

Treasurer

Herbert W. Pioch
Reliable Tool & Machine
1214-16 Dorr St.
Toledo, Ohio

National Director

R. E. Dunham
Owens-Illinois Glass Co.
14th & Adams Sts.
Toledo, Ohio

Members

Thomas F. Anderson
S. Panoroma Drive
Monte Sano Mt.
Huntsville, Alabama
(Rohm & Haas Co.)

William R. Anderson
Anderson Assoc., Inc.
P.O. Box 674
1702 Wayne St.
Toledo 9, Ohio

R. S. Baumgartner
Plaskon Div. L-O-F Glass Co.
2112 Sylvan Ave.
Toledo, Ohio

Geoffrey R. Bennett
Beta Plastics Co.
3937 Seckinger Dr.
Toledo 13, Ohio

James L. Bernard
Bernard Engraving Co.
N. 12th & Sherman Sts.
Toledo 10, Ohio

Donald R. Bowlin
K. & M. Machine Co.
3128-40 Bellevue Rd.
Toledo 6, Ohio

John H. Bygrave
Plaskon Div.-L-O-F-Glass Co.
2112 Sylvan Ave.
Toledo, Ohio

E. D. Caldwell
Plaskon Div.-L-O-F Glass Co.
2112 Sylvan Ave.
Toledo 6, Ohio

David E. Cordier
2618 Brookford Dr.
Toledo, Ohio
(Plaskon Div.-L-O-F Glass Co.)

Robert F. DeBrock
Owens-Illinois Glass Co.
Ohio Building
P.O. Box 1035-36
Toledo 1, Ohio

Purcell DeHan
Peerless Mold Plas., Inc.
401 Hamilton St.
Toledo, Ohio

H. W. DeVore
Plaskon Div.-L-O-F Glass Co.
2112 Sylvan Ave.
Toledo 6, Ohio

Charles L. Dimmer
2018 Parkside Blvd.
Toledo 7, Ohio
(Dresch Laboratories Co.)

Paul Richard Dukes
Industrial Finishers, Inc.
651 Miami
Toledo, Ohio

Robert E. Dunham
Owens-Illinois Glass Co.
14th & Adams St.
Toledo, Ohio

Elmer L. Faber
4162 Berwick Ave.
Toledo 12, Ohio
(Conforming-Matrix Corp.)

William E. Fillmore
Owens-Illinois Glass Co.
14th & Adams St.
Toledo, Ohio

Arthur E. Giesler
Electric Auto-Lite Co.
511 Hamilton St.
Toledo 1, Ohio

A. J. Gogel
2929 River Road
Maumee, Ohio
(Consultant)

Gunther H. Greifelt
2034 Penn Road
Toledo, Ohio
(Reliable Mach. & Tool Co.)

Keith W. Hall
1824 Anderson Ave.
Ann Arbor, Michigan
(University of Michigan)

Rudolph Hartkopf
Holland Engineering Co.
Route 11 Box 356
7340 Dorr St.
Toledo 7, Ohio

John J. Hoffman
Champion Molded Plas. Co.
321 N. Portland
Bryan, Ohio

Victor E. Hofmann
608 Winthrop St.
Toledo 10, Ohio

Orman F. House
Ohio Plate Glass Co.
305 Morris St.
Toledo 4, Ohio

James W. Hyland, Jr.
Plaskon Div.-L-O-F Glass Co.
2112 Sylvan Ave.
Toledo, Ohio

Horatio N. Jex
Plaskon Div.-L-O-F Glass Co.
2829 Glendale Ave.
Toledo 14, Ohio

Conrad Jobst
2356 Torrey Hill Drive
Toledo, Ohio
(Owens-Illinois Glass Co.)

Edward H. Johnson
1449 Goodale Avenue
Toledo, Ohio
(Fred W. Kiemle Co.)

George A. Johnston
3675 Jackman Road
Toledo 10, Ohio
(Libbey-Owens-Ford Glass Co.)

Andrew W. Kassay
Plaskon Div.-L.O.F. Glass Co.
2112 Sylvan Avenue
Toledo 6, Ohio

Arthur B. Keown
633 E. Jefferson Street
Sandusky, Ohio
(Wilson Plastics, Inc.)

Erik Kohler
K. & M. Machine Company
3128-40 Bellevue Road
Toledo 12, Ohio

Edward F. Korbach
3733 Wyckcliffe
Toledo, Ohio
(Electric Auto-Lite)

Theodore A. Kosydar
526 Dexter Street
Toledo 8, Ohio
(Owens-Illinois Glass Co.)

William Kramer
K & M Machine Co.
3128-40 Bellevue Rd.
Toledo, Ohio

Lee C. Lanfare
Lanfare Molded Products
5134 Monroe St.
Route #9 Box 159
Toledo 6, Ohio

J. M. Little
J. M. Little & Assocs.
1217 Madison Ave.
Toledo 2, Ohio

H. E. MacArthur
Conforming Matrix Corp.
Toledo Factories Bldg.
Toledo 2, Ohio

Paul T. Mattimoe
Libbey-Owens-Ford Glass
1701 E. Broadway
Toledo, Ohio

J. A. Murray
Canal Road
Waterville, Ohio

A. R. Nazar
Nazar Rubber Co.
2727 Avondale Ave.
Toledo 7, Ohio

Richard J. Obert
222 Raymer Blvd.
Toledo 5, Ohio
(Plaskon Div.-L.O.F. Glass Co.)

John Petrucha
5835 Livingston Dr.
Toledo 13, Ohio
(K & M Machine Tool Co.)

Lewis L. Phillips
Champion Mold. Plas., Inc.
321 N. Portland St.
Bryan, Ohio

Herbert W. Pioch
Reliable Tool & Machine Co.
1214-16 Dorr St.
Toledo, Ohio

John C. Purdue
Owen & Owen
805 Nicholas Bldg.
Toledo 4, Ohio

Carlton A. Richie
Owens-Illinois Glass Co.
1700 N. Westwood Ave.
Toledo, Ohio

F. B. Rosenberger
R.R. #1 Box 432A
Maumee, Ohio
(Plaskon Div.-L.O.F. Glass Co.)

Joseph D. Ryan
Libbey-Owens-Ford Glass
1701 East Broadway
Toledo 5, Ohio

Milton T. Schimmel
Conforming Matrix Corp.
Toledo Factories Bldg.
Toledo 2, Ohio

William Schmid
Owens-Illinois Glass Co.
Duraglas Center
14th & Adams St.
Toledo, Ohio

Joy B. Schmitt
2244 Sylvan Ave.
Toledo, Ohio
(DeVilbiss Co.)

R. L. Serrick
Toledo Plastics Co.
397 Phillips Ave.
Toledo 12, Ohio

William G. Skutch
Peerless Mold. Plas., Inc.
401 Hamilton St.
Toledo 2, Ohio

Eugene Spaulding
455 Poinsetta Ave.
Toledo 12, Ohio
(Owens-Illinois Glass Co.)

Emmet J. Sullivan
2181 Parkdale
Toledo 7, Ohio
(Lexmore, Inc.)

Ronald E. Wagner
Peerless Mold. Plas., Inc.
Hamilton & Division Sts.
Toledo 2, Ohio

Claire B. Walworth
Plaskon Div.-L.O.F. Glass Co.
2112 Sylvan Ave.
Toledo 6, Ohio

R. R. Washing
Owens-Illinois Glass Co.
1510 N. Westwood Ave.
P.O. Box 1035-1036
Toledo, Ohio

John Webb
Summit Roberts Tool Co.
830 New York Ave.
Toledo 11, Ohio

Gerald J. Welch
2558 Lambert Drive
Toledo, Ohio
(Bakelite Co.)

George R. Zolman
Libbey-Owens-Ford Glass
1701 East Broadway
Toledo 5, Ohio

TORONTO

OFFICERS

President

Malcolm Wilkinson
Canadian Industries Ltd.
555 Eastern Avenue
Toronto, Ontario, Canada

Vice-President

Thomas J. Carey
Canadian General Electric
212 King Street, W.
Toronto, Ontario, Canada

Secretary

John L. Burnie
Monsanto (Canada) Ltd.
183 Front Street, E.
Toronto, Ontario, Canada

Treasurer

Irving Duviner
Dulev Plastics, Ltd.
35 Hanna Avenue
Toronto 2, Ontario, Canada

National Director

Zoltan Merszei
94 Laurel Ave.
Islington, Toronto
Ontario, Canada
(Dow Chemical Co. of Canada Ltd.)

Members

James Adie
396 Leslie St.
Toronto, Ontario, Canada
(Reliable Plas. Co., Ltd.)

Gordon W. Beatty
Dow Chemical of Canada Ltd.
204 Richmond W.
Toronto, Ontario, Canada

John L. Burnie
Monsanto (Canada) Ltd.
183 Front Street, E.
Toronto, Ontario, Canada

Thomas J. Carey
Canadian General Electric
212 King St., W.
Toronto, Ontario, Canada

A. McL. Carr-Harris
54 Howard Ave.
Oakville, Ontario, Canada
(Bakelite Co. (Canada) Ltd.)

Frederick Cirka
T. W. Hand Fireworks Co., Ltd.
Cooksville, Ontario, Canada

Henry M. Collins
The Vinyoil Paint Co.
R.R. #1
York Mills, Ontario, Canada

George A. Copping
Amalgamated Electric Corp. Ltd.
384 Pape Ave.
Toronto, Ontario, Canada

Arthur W. Cove
Rubberset Co., Ltd.
Gravenhurst, Ontario, Canada

Richard R. Crichton
Brunswick-Balke-Collender Co. of Canada Ltd.
40 Hanna Ave.
Toronto, Ontario, Canada

Irving Duviner
Dulev Plastics, Ltd.
35 Hanna Avenue
Toronto 2, Ontario, Canada

James B. Farrell
Farrell Plastics Co. Ltd.
19 Draper St.
Toronto, Ontario, Canada

Frank C. Goddard
118 Chaplin Crescent
Toronto, Ontario, Canada
(Henry Power Tools, Ltd.)

Lionel Goodman
37 Bayview Courts
Willowdale, Ontario, Canada
(M. Wintrob & Sons of Canada Ltd.)

George M. Hale
1102-80 Richmond St., W.
Toronto, Ontario, Canada
(Canadian Resins & Chems., Ltd.)

Henry J. Heldmann
Cress Laboratories
472 Mill St.
Kitchener, Ontario, Canada

Harold Hillsdon
7 Field Avenue
Leaside, Ontario, Canada
(Almagamated Electric Corp. Ltd.)

Eric H. Huggins
Dow Chemical Co. of Canada, Ltd.
204 Richmond St., W.
Toronto 1, Ontario, Canada

D. J. Hunter
Canadian General Electric
761 Division St.
Cobourg, Ontario, Canada

Bernard Thomas Johnson
Monsanto (Canada) Ltd.
183 Front St., E.
Toronto, Ontario, Canada

Martin Kamins
Percy Hermant Co.
204 King St., E.
Toronto, Ontario, Canada

B. Kellam
Hydro Elec. Power Comm. of Ontario
Research Division
620 University Ave.
Toronto, Ontario, Canada

John N. Kempf
131 Patricia Avenue
Oshawa, Ontario, Canada
(Duplate Canada, Ltd.)

William Cyril Lacroix
15 Summerhill Rd.
Minico
Toronto 14, Ontario, Canada
(Farrell Plastics)

H. A. Wilfred Lynch
Maple Leaf Plastics, Ltd.
703 Bloor St., W.
Toronto 4, Ontario, Canada

F. W. McEwen
Duplate Canada Ltd.
First Ave.
Oshawa, Ontario, Canada

Thomas A. McLellan
P.O. Box 118
Cliffcrest, Ontario, Canada
(Duplate Canada Ltd.)

Zoltan Merszei
94 Laurel Avenue
Islington, Toronto, Ontario, Canada
(Dow Chemical Co. of Canada, Ltd.)

L. G. E. Mitchell
The Mitchell Button Co., Ltd.
97 Victoria St., N.
Kitchener, Ontario, Canada

Ralph A. Noble
B. F. Goodrich Chemical Co.
Dunker Bldg.
Kitchener, Ontario, Canada

William Page
T. W. Hand Fireworks Co., Ltd.
Cooksville, Ontario, Canada

Roland Pallin
Canadian Industries Ltd.
555 Eastern Ave.
Toronto, Ontario, Canada

David Purdie
Fuller Brush Co., Ltd.
70 Sanford Ave., N.
Hamilton, Ontario, Canada

Herbert Reiss
Amalgamated Elec. Corp., Ltd.
384 Pape Avenue
Toronto, Ontario, Canada

Frank Routley
Glenn S. Woolley & Co.
3252 Danforth Ave.
Toronto, Ontario, Canada

Frederic J. Rowan
14 Hargrove Lane
Brown's Line P. O.
Toronto 14, Ontario, Canada

Joseph F. Schneider
R.R. #1
Cooksville, Ontario, Canada
(Reliable Plastics Co.)

Julius J. Schuch
General Plastics, Ltd.
150 Wellington St. W.
Toronto, Ontario, Canada

Sydney Shaw
M. Wintrob & Sons, Canada, Ltd.
260 Spadina Ave.
Toronto, Ontario, Canada

H. Archie Smith
18 Beechwood Crescent
Toronto 6, Ontario, Canada
(Union Screen Plate Co. of Canada, Ltd.)

Murray Spencer
147 Bowood Ave.
Toronto, Ontario, Canada
(Canadian General Elec.)

Robert H. Strong
Naugatuck Chemicals
247 Fleet St. W.
Toronto, Ontario, Canada

J. H. Wallace
105 Hanna Rd.
Leaside, Ontario, Canada
(Dulev Plastics, Ltd.)

Malcolm Wilkinson
Canadian Industries Ltd.
555 Eastern Avenue
Toronto, Ontario, Canada

F. Perry Wilson
Bakelie Co. (Canada) Ltd.
P.O. Box 395
Belleville, Ontario, Canada

Trygve Wold
Smith & Stone Ltd.
Georgetown, Ontario, Canada

Glenn S. Woolley
Glenn S. Woolley & Co.
3252 Danforth Ave.
Toronto 13, Ontario, Canada

UPPER MIDWEST

OFFICERS

President

A. G. Morrison
Product Engr. & Develp. Co.
9 North Tyler Ave.
Hopkins 6, Minn.

Vice-President

D. R. Williams
Chippewa Plastics, Inc.
210 E. Columbia St.
Chippewa Falls, Wisc.

Secretary-Treasurer

Lawrence E. Erickson
Rainbow Plas. Prods. Co.
1119 North Bryant Ave.
Minneapolis, Minn.

National Director

Jerome L. Formo
Minneapolis-Honeywell Regulator Co.
2753 Fourth Ave., S.
Minneapolis 8, Minn.

Members

C. R. Arnold
614 East 2nd Street
New Richmond, Wisc.
(Roughboy Industries, Inc.)

Esther B. Aune
1921 First Ave., S.
Minneapolis, Minn.
(Minneapolis-Honeywell Regulator Co.)

C. L. Barker
Acme Plastics
15 N. Second St.
Minneapolis 1, Minn.

Alexander G. Bezat
616 E. 66th St.
Minneapolis, Minn.
(Minneapolis-Honeywell Regulator Co.)

C. S. Blackwell
Minnesota Plastics Corp.
366 Wacouta St.
St. Paul 1, Minn.

R. G. Booker
Booker & Wallestad
6012 Wazata Blvd.
Minneapolis, Minn.

Lawrence G. Boschma
613 Washington Ave., SE
Minneapolis 14, Minn.
(University of Minnesota)

William W. Brooks
1839 Carl St.
St. Paul 8, Minn.
(Plastics, Inc.)

Paul A. Bury
The Fiberite Corp.
516 West Fourth St.
Winona, Minn.

Arthur E. Bush
Premier Plastic Mfg. Co.
220 N. 5th St.
Minneapolis, Minn.

Russell V. Carlson
4705 31st St., S.
Minneapolis, Minn.
(Precision Cosmet Co., Inc.)

Dwight H. Chambers
Minneapolis-Honeywell Regulator Co.
2753 Fourth Ave., S.
Minneapolis, Minn.

C. Wood Clemons
W. Bush Lake Road
Minneapolis 20, Minn.

Harold W. Darr
Harold W. Darr Assocs.
1304 Foshay Tower
Minneapolis 2, Minn.

John E. David
The Fiberite Corporation
516 West Fourth St.
Winona, Minn.

Lawrence E. Erickson
Rainbow Plas. Prods. Co.
1119 North Bryant Ave.
Minneapolis, Minn.

R. Kenneth Erickson
Kenson, Inc.
6012 Waygate Blvd.
Minneapolis 16, Minn.

William Wayne Everling
193 Amherst St.
St. Paul 5, Minn.
(Plastics, Inc.)

Paul W. Felt
Brown & Bigelow
1286 University Ave.
St. Paul, Minn.

Kenneth B. Fleming
Chippewa Plastics, Inc.
210 East Columbia St.
Chippewa Falls, Wisc.

Jerome L. Formo
Minneapolis-Honeywell Regulator Co.
2753 Fourth Ave., S.
Minneapolis 8, Minn.

Frank W. Fuller
846 Summit Ave.
St. Paul 5, Minn.
(Resinwood Products, Inc.)

John D. Hakanson
Minn. Mining & Mfg. Co.
852 Third St., S.
St. Paul, Minn.

Paul L. Hedrick
1134 Palace Ave.
St. Paul 5, Minn.
(Minn. Mining & Mfg. Co.)

Fulton Holtby
129 Melbourne Ave., S.E.
Minneapolis, Minn.
(University of Minnesota)

Almon G. Hovey
Route #4
Anoka, Minn.
(Archer-Daniels-Midland Co.)

Orville A. Hultgren
Rainbow Plas. Prods. Co.
1119 North Bryant Ave.
Minneapolis, Minn.

Robert Isleifson
Minneapolis-Honeywell Regulator Co.
2743 Fourth Avenue, S.
Minneapolis, Minn.

Hamlet E. Johnson
6235 West Broadway
Minneapolis 22, Minn.
(Mill City Plastics, Inc.)

Lennart I. Johnson
Minneapolis-Honeywell Regulator Co.
2753 Fourth Ave., S.
Minneapolis 8, Minn.

Leonard S. Johnson
Johnson Mfg. Co.
229 S. Main St.
Chippewa Falls, Wisc.

Fred J. Kaim
Superior Plating & Rustproofing Co.
10 Second St., N.E.
Minneapolis 13, Minn.

Burl C. Krafthefer
Woodmark Indus., Inc.
4601 Highway #7
Minneapolis 16, Minn.

Joseph H. Kugler
Minn. Mining & Mfg. Co.
Special Products Div.
900 Fauquier
St. Paul 6, Minn.

William H. Mahle
N. W. Plastics, Inc.
65 East Plato St.
St. Paul 4, Minn.

A. G. Morrison
Prod. Engr. & Develop. Co.
9 North Tyler Ave.
Hopkins 6, Minn.

S. K. Moxness
Moxness Tool Works
1439 Junction Ave.
Racine, Wisc.

William K. Nelson
4805 Drew Ave.
Minneapolis 10, Minn.
(W. K. Nelson Co.)

Le Roy Owen
Carpenter Steel Company
4608 Colfax Avenue, S.
Minneapolis 9, Minn.

Orville Ross
5224 France S.
Minneapolis 10, Minn.
(Minneapolis-Honeywell Regulator Co.)

George S. Sable
4330 Longfellow Ave., S.
Minneapolis 7, Minn.
(Minneapolis-Honeywell Regulator Co.)

Frank P. Seidl
Plastics, Inc.
224 Ryan Ave.
St. Paul 2, Minn.

Steven J. Sultany
Telex, Inc.
Telex Park
St. Paul 1, Minn.

Erwin W. Ulrich
Minn. Mining & Mfg. Co.
900 Fauquier
St. Paul 6, Minn.

Stanley C. Watson
Raymond Laboratories, Inc.
261 East Fifth St.
St. Paul 1, Minn.

D. R. Williams
Chippewa Plastics, Inc.
210 East Columbia St.
Chippewa Falls, Wisc.

Howard F. Woo
Harold W. Darr Assocs.
1304 Foshay Tower
Minneapolis 2, Minn.

John Zapf
Minneapolis-Honeywell Regulator Co.
2600 Ridgway Road
Minneapolis 13, Minn.

WESTERN NEW ENGLAND

OFFICERS

President

John W. Mallory
Parker Stamp Works, Inc.
650 Franklin Ave.
Hartford, Conn.

Vice-President

Emil Marciniak
A. G. Spalding & Bros., Inc.
Meadow St.
Chicopee, Mass.

Secretary

George W. Martin
Noma Electric Corp.
178 Sargeant St.
Holyoke, Mass.

Treasurer

James L. Dunn
37 Bridge St.
Monson, Mass.
(C. F. Church Mfg. Co.)

National Director

Sherwood L. Young
C. F. Church Mfg. Co.
North Main St.
Monson, Mass.

Members

George P. Alderman
Adams Plastics Co., Inc.
380 Dwight St.
Holyoke, Mass.

Alvino Aliberti
A & M Tool & Die Co.
Foster & North St.
Southbridge, Mass.

Clarence T. Anderson
ABA Tool & Die Co., Inc.
1395 Tolland Turnpike
Manchester, Conn.

Helmar G. Anderson
ABA Tool & Die Co., Inc.
1395 Tolland Turnpike
Manchester, Conn.

Charlie William Bentley
Grimes Brook Rd.
Simsbury, Conn.
(Colt's Mfg. Co.)

Edwin R. Bertsche
ABA Tool & Die Co., Inc.
1395 Tolland Turnpike
Manchester, Conn.

H. Calvin Bitter
Parker Stamp Works, Inc.
650 Franklin Ave.
Hartford, Conn.

Jack T. F. Bitter
Parker Stamp Works, Inc.
650 Franklin Ave.
Hartford, Conn.

Max J. Bizon
103 Madison St.
Chicopee Falls, Mass.
(Rogers Plastics, Inc.)

Charles L. Blanchard
Pro-phy-lac-tic Brush Co.
Florence, Mass.

Richard E. Bock
465 Swallow Drive
Miami Springs, Florida

Paul James Bosco
Bailey Ave.
Yalesville, Conn.
(Pratt & Whitney Aircraft)

Henry E. Brooks
Rogers Corporation
109 Mill St.
Manchester, Conn.

Martin G. Caine
120 Dayton St.
Springfield, Mass.
(Monsanto Chemical Co.)

George W. Carlson
84 Grennan Rd.
West Hartford, Conn.
(Arrow Hart & Hegeman Elec.)

Edmund S. Childs, Jr.
58 Maple Road
Longmeadow 6, Mass.
(Monsanto Chemical Co.)

George W. Clark
Plax Corporation
P.O. Box 1019
411 Homestead Ave.
Hartford, Conn.

Walter G. Clark
Parker Stamp Works, Inc.
650 Franklin Ave.
Hartford, Conn.

Prescott Coan
Monsanto Chemical Co.
Springfield 2, Mass.

Clarence W. Coe
Stonington Div.
Emhart Mfg. Co.
Stonington, Conn.

Charles E. Coombs
Morart Gravure Corp.
7 Bridge St.
Holyoke, Mass.

Donald Cramer
D. C. Mfg. Co.
Smiths Ferry
Holyoke, Mass.

Harry D. Crandon
American Optical Co.
Southbridge, Mass.

Robert W. Crawford
Monsanto Chemical Co.
Springfield 2, Mass.

Denis A. Dearle
North & Judd Mfg. Co.
500 E. Main St.
New Britain, Conn.

Frederick D. DeBell
South Maple St.
Hazardville, Conn.
(DeBell & Richardson, Inc.)

Frank J. Donohue
Monsanto Chemical Co.
Springfield, Mass.

Edward F. Duda
Noma Electric Corp.
178 Sargeant St.
Holyoke, Mass.

James L. Dunn
37 Bridge St.
Monson, Mass.
(C. F. Church Mfg. Co.)

William S. Dush
Parker Stamp Works, Inc.
650 Franklin Avenue
Hartford, Conn.

Stanley R. Ellingham
Wico Electric Co.
West Springfield, Mass.

Earl L. Felix
Central Tool & Die Co., Inc.
10 Park St.
Springfield, Vt.

Paul E. Ferland
Marland Mold Co.
261 Newell St.
Pittsfield, Mass.

William J. Fitzgerald
838 Thorn St.
Sewickley, Pa.

Winthrop A. Fleming
Standard Tool Co.
Leominster, Mass.

C. P. Fortner
7 Long Lane Rd.
W. Hartford, Conn.
(Plax Corp.)

Albert F. Gagnon
Florence Tool & Die
74 Ryan Road
Florence, Mass.

Sanford E. Glick
79 Longhill St.
Springfield 5, Mass.
(Monsanto Chemical Co.)

Wyman Goss
General Electric Co.
1 Plastics Ave.
Pittsfield, Mass.

Carl F. Graesser
86 Pleasantview Ave.
Longmeadow 6, Mass.
(Monsanto Chemical Co.)

Percy Grafton
100 Fairview Ave.
Albany, New York
(Niagara Insul-Bake Spec. Co., Inc.)

Henry E. Griffith
Plax Corporation
P.O. Box #1019
Hartford, Conn.

David Guarnaccia
105 School St.
Springfiield, Mass.
(Monsanto Chemical Co.)

Lewis H. Gustafson
50 Ridgewood Terrace
Northampton, Mass.
(Pro-phy-lac-tic Brush Co.)

Ira H. Gutman
127 Loomis Drive
West Hartford, Conn.

Frank Hanson
60 Charon Terrace
South Hadley, Mass.
(Adams Plastics Co.)

Herbert H. Hasenzahl
American Optical Co.
Nomar Division
127 Marcy St.
Southbridge, Mass.

E. L. Hobson
Monsanto Chemical Co.
Springfield, Mass.

Frederick B. Hogan
Marland Mold Co., Inc.
261 Newell St.
Pittsfield, Mass.

Paul M. Holmberg
25 Valentine Circle
Newington, Conn.
(Arrow-Hart & Hegeman Elec. Co.)

Donald G. James
Fuller Brush Co.
3580 Main St.
Hartford, Conn.

David Johnston
Rogers Plastic Corp.
West Warren, Mass.

Crichton B. Jubb
Box 254
Homestead Ave.
Holyoke, Mass.
(Adams Plastics Co.)

Harold L. Kast
12 Villone Drive
Leeds, Mass.
(Pro-phy-lac-tic Brush Co.)

George C. Kiessling
Blvd. Plaza Apt. B-3
Sewickley, Pa.

Albert D. King
P.O. Box 329
Northampton, Mass.
(Albert D. King)

Mohan S. Kirpalani
Monsanto Chemical Co.
Springfield, Mass.

John F. Krach
Rogers Plastic Corp.
West Warren, Mass.

Alden P. Landall
250 Connecticut Ave.
Pittsfield, Mass.
(General Electric Co.)

Wesley S. Larson
DeBell & Richardson
P.O. Box J
Hazardville, Conn.

Theodore S. Lawton, Jr.
Monsanto Chemical Co.
Springfield 2, Mass.

Charles Lichtenberg
Monsanto Chemical Co.
P.O. Box 1531
Springfield, Mass.

Arthur W. Logozzo
Nutmeg Chrome Corp.
111 Vanderbilt Corp.
W. Hartford 10, Conn.

Robert Lurie
13 Second St.
Pittsfield, Mass.
(General Electric Co.)

Edward W. Maass
American Optical Co.
Southbridge, Mass.

John Edward Mahoney
Pro-phy-lac-tic Brush Co.
Florence, Mass.

John W. Mallory
Parker Stamp Works, Inc.
650 Franklin Ave.
Hartford, Conn.

Emil Marciniak
A. G. Spaulding &
Bros., Inc.
Meadow St.
Chicopee, Mass.

George W. Martin
Noma Electric Corp.
178 Sargeant St.
Holyoke, Mass.

John M. Marvin
Tennessee Eastman Co.
39 S. Main St.
Leominster, Mass.

Raymond A. Mazur
R.F.D. #1
Pomfret Center, Conn.
(American Cyanamid Co.)

T. R. McLaughlan
The Borden Co.
74 Coolidge Ave.
Needham, Mass

Frederic C. Means
The Fellows Gear Shaper
River St.
Springfield, Vt.

Allen L. Midyette, Jr.
176 Florida St.
Springfield, Mass.
(C. F. Church Mfg. Co.)

J. Walter Miller
25 Wexford Street
Springfield 8, Mass.
(Monsanto Chemical Co.)

Charles L. Mills, Jr.
Monsanto Chemical Co.
Springfield 2, Mass.

Clyde E. Morrell
American Optical Co.
Dept. AD
Southbridge, Mass.

Philip S. Nelson
14 Crosshill Rd.
W. Hartford, Conn.
(Arrow-Hart & Hegeman
Elec.)

Mortimer H. Nickerson
DeBell & Richardson, Inc.
P. O. Box J.
Hazardville, Conn.

William Edward Olson
Box 111
Palmer, Mass.

James H. Parliman
Seminary Rd.
Simsbury, Conn.
(Plax Corp.)

Richard V. Pelton
Sheffield Plastics, Inc.
Box 248 Salisbury Rd.
Sheffield, Mass.

John A. Peterson
33 Roe Ave.
Northampton, Mass.
(Pro-phy-lac-tic Brush Co.)

George E. Pickering
43 Walkley Rd.
W. Hartford, Conn.
(Plax Corp.)

Jules Pinsky
50 Sequin Road
W. Hartford, Conn.
(Plax Corp.)

Arthur Bernard Quinn
91 Lardner Rd.
Bristol, Conn.
(Landers, Frary & Clark)

Henry M. Richardson
DeBell & Richardson
P.O. Box J
Hazardville, Conn.

Robert W. Riedel
Monsanto Chemical Co.
Vinyl Film Dept.
Springfield, Mass.

Robert Eldon Roberts
Fred T. Roberts & Co.
Branchville Road
Ridgefield, Conn.

Harold G. Roman
F. J. Stokes Machine Co.
252 Main St.
Portland, Conn.

Victor E. Rosenlund
Springfield Molders, Inc.
Cushman St.
Monson, Mass.

Robert D. Sackett
15 Western View Circle
East Longmeadow, Mass.
(Monsanto Chemical Co.)

Francis J. Schultz
Marland Mold Co.
261 Newell St.
Pittsfield, Mass.

Albert Shunaman
C. F. Church Mfg. Co.
Palmer Road
Monson, Mass.

Milton A. Siebert
M. A. Siebert Co.
43 Leon St.
Boston 15, Mass.

S. M. Silverstein
Rogers Corp.
Mill & Oakland Sts.
Manchester, Conn.

Cortes N. Sprankle
Plax Corp.
P.O. Box 1019
Hartford, Conn.

George D. Smith
14 Godfrey St.
Willimantic, Conn.
(Rogers Corp.)

Arthur A. Staff
Koppers Co., Inc.
250 Stuart St.
Boston 16, Mass.

Harold R. Stover
Sheffield Plastics, Inc.
Box 248
Sheffield, Mass.

Edward Joseph Sweeney
Rogers Corp.
Mill & Oakland St.
Manchester, Conn.

Alfred L. Therrien
27 Holloway Road
Rochester, N. Y.
(Monsanto Chemical Co.)

Richard K. Thomson
Celanese Corp. of America
27 Main St.
Leominster, Mass.

James R. Turnbull
Monsanto Chemical Co.
Springfield 2, Mass.

Bernard Ulvad
36 Haskell Ave.
N. Leominster, Mass.

Edward W. Vaill
Bakelite Co.
410 Asylum St.
Hartford 3, Conn.

Armand J. Vallieres
Victory Plastics Co.
Hudson, Mass.

William E. Welch
43 Bessemer St.
Springfield, Mass.
(Monsanto Chemical Co.)

George W. Whitehead
46 Puritan Circle
Springfield 9, Mass.
(Improved Paper
Machinery Corp.)

Ernest H. Wilson
85 Newell St.
Pittsfield, Mass.

Robert Bennett Yahn
Ralph B. Simonds Assoc.
Providence, R. I.

Sherwood L. Young
C. F. Church Mfg. Co.
North Main St.
Monson, Mass.

NON-SECTION

Gopal Ramchandra Bhide
Dominion Plas. Industries
Chopatty,
Sandhurst Bridge,
Bombay, INDIA

Ernest M. Dickerman
Patent Button Co. of Tenn.
P.O. Box 1271
Knoxville, Tennessee

Ray Hodge
Mid-States Laboratories
218 East First St.
Wichita, Kansas

R. W. Hull
Rex Mfg. Co., Inc.
Connersville, Indiana

Gustav F. Ingwersen
Ingerwersen Mfg. Co., Inc.
1800 S. Acoma Street
Denver 10, Colorado

Niels Jacobsen
21 Hoffmeyersvej
Copenhagen F, DENMARK

Carl Herbert Jacobson
Hammarby Bakelit
Industri AB
Stockholm 20, SWEDEN

Jan-Erik Janson
The Swedish Plas. Fed.
43 Karlavagen
Stockholm, SWEDEN

Denis Kavanagh
Monsanto Chemical Co.
Victoria Station House
Victoria Street
London, S.W. 1, ENGLAND

Thomas Edward Kee
627 Park Drive, N.E.
Atlanta, Georgia
(Lockheed Aircraft Corp.)

Theo W. Keller
Howard Mfg. Corp.
1401 S. Main St.
Council Bluffs, Iowa

A. R. Kull
4094 Meadowbrook Blvd.
University Heights, Ohio
(MacRay Eng. Co.)

Dr. J. M. E. Laeis
3 Ander Hagenau
Weissenburg, Bavaria,
GERMANY, U.S. Zone
(Eckert Ziegler)

Harold A. Levey
American Prods. Mfg. Co.
8131 Oleander Street
New Orleans 18, La.

Cloven E. Miller
Lewis Weld. & Eng. Corp.
23000 St. Clair Avenue
Cleveland, Ohio

Paul F. Oswald
Thomson Mach. Co., Inc.
Thibodaux, La.

Raymond S. Perkins
General Electric Co.
N. 22nd Street
Decatur, Illinois

T. L. Price
Lewis Weld. & Engr. Corp.
23000 St. Clair Avenue
Cleveland 17, Ohio

Ingemar Salevid
Skanska Attikfabriken AB
Perstorp, SWEDEN

Ernst Schrenk
Worbia Ltd.
Rohcelluloidfabrik
Papiermuhle
Berne, SWITZERLAND

Jorge I. Slachevsky
Plastix Peruana S.A.
Casilla, 1814
Lima, PERU

Clifford William Welch
British Inst. of Eng. Tech.
17-19 Stratford Place
Oxford Street
London, W. 1, ENGLAND

Glenn Edward Wintermute
Arvin Industries, Inc.
13th Street
Columbus, Indiana

Miami Valley

John L. Russell

A large attendance greeted Mr. R. W. Van Sickle of the Dow Chemical Co., who talked to Miami Valley Section members and their guests on May 1 as the Peerless Pantry in Miamisburg, O. It was a dinner meeting and drew 65 members and guests.

Mr. Van Sickle who showed and explained the Dow Co. film "A Review of Recent Injection Molding Techniques" is a graduate of the University of Wisconsin. He was 7 years with the Dow Technical Service and is now in the department of development of injection molding technology.

Welcome Tom Bishop, H.P.M Co. representative, as a new member of Miami Valley Section.

Listed among the guests at the meeting were Ray Adams, Inland Mfg. Co., W. M. Truska, Jr., H.P.M. Co., Sam Russell, Plastic Research Products Co., Tom Hall, Delco; Bill Gaiser, Leonard Rawson and Bob Davidson, Kurz-Kasch, Inc.; Al Hennessey, Gordon Hall, Carl Robinson, Ray Houston and Quentin Fischer, Recto Molded Products Co.; and Bob Nolte, Crosley Div., Avco Mfg. Corp. Welcome all.

SPE

PRIZE PAPER CONTEST

See editorial on page 4

D & R Pilot Plants

Some of our clients have recently requested us to undertake pilot manufacture of plastic materials and products which have been developed in our laboratories. Since these are miniature manufacturing operations, their conduct is quite different from our regular laboratory work; we have therefore, established a separate Connecticut corporation, D&R Pilot Plants, Inc., in which to carry on this type of business. Henry M. Richardson is President and John M. DeBell is Treasurer and the operating personnel familiar with the work have been transferred from our Hazardville laboratories.

DeBell & Richardson, Inc. will continue to render its research and development service to the plastics industry as in the past without change of ownership or management.

SYNVAR
MOLDING COMPOUND for

1. General Purpose, Woodflour Filled Type
2. Mineral Filled, Heat Resistant Type
3. Medium Impact Type
4. Shock Resistant, Rubber Modified Type

All compounds have excellent moldability, short curing cycles, good gloss and appearance and very good mechanical and electrical properties.

SYNVAR CORPORATION
Wilmington 99, Delaware

Successful Designing For Plastics Molding

W. M. Halliday

This article continues the consideration of factors which must be evaluated in designing plastic molds.

(F) Determination of Flash Lines

To a considerable extent flash formation depends upon the general quality, accuracy and design of the molding tool. This is particularly so in respect of injection molded articles.

With practically all forms of compression molding, however, the determination of the flash line location upon the component assumes very much greater importance.

With this process of manufacture, when employing molds other than those of the positive type of construction, it is customary to load the mold with a quantity of plastics material in granule, powder or pellet form, slightly greater than the calculated amount. The reason why this is performed is to ensure that complete filling out of the cavity area, and that all **the material** will be exposed to the molding pressure imparted to the mold.

As the mold is closed any excess plastics material will be squeezed out between the lands of the mold blocks or through the spew channel provided to form a flash line around the component. This flash has to be removed by one means or another at a subsequent operation. It is essential that it be located at the most suitable points on the component to ensure quick and inexpensive removal and to avoid damaging the surfaces of the part as far as possible. Generally flash removal operations are fairly costly, usually they are performed by manual means, such as filing, trimming or hand polishing. The component may be held in a revolving collet or chuck and a file or finishing cloth applied to the affected part.

These unsatisfactory features can often be greatly minimized or entirely removed if the component designer strives to fashion the shape and form of the article to conform with recognized principles. These are as follows:—

(a) The flash line should not be disposed in more than a single plane. Difficulties in removing the flash will be occasioned if this is not achieved.

(b) The flash line should be straight whenever it is practicable to arrange. Irregular flash lines are difficult to deal with, trimming tools, etc., cannot be applied easily to such surfaces, and there will always be the risk of some flash remaining to cause unsightliness.

(c) Preferably the flash line should not lie along a flat surface. The reason for this being that it is very difficult to remove the flash material without inflicting damage by scratching or rubbing the remainder of the the surface of the part.

(d) Where it is unavoidable to locate the flash line other than on a flat surface it will often be found advantageous to add a lip or beading, along which the line would lie. This would make for simpler removal of the flash.

(e) Inscription panels, fluting for decorative purposes, or recessed portions on the side surface of a component should not be extended up to the flash line, for the same reasons given above.

(f) Endeavour to blend in the flash line with the general styling employed on the surfaces of the component as far as possible. Thus, in the case of an article having a number of ribs running along its whole length, it will be far better to locate the flash line along the crests of these ribs rather than across them.

(g) Try always to locate flash lines along a non-essential surface.

(G) The Wall Thickness of the Component

One other important point will also have to be settled by the designer of the plastics article, possibly in co-operation with the mold designer and engineer; this is the matter of wall thickness to be embodied in the part.

From the cost viewpoint the thinner the walls molded the less material will be used, and the cost of the component will be accordingly reduced. There will usually be a limiting factor in the shape of the strength requirements to be fulfilled by the finished article. The walls must be left thick enough to stand up satisfactorily to the working conditions.

If the component is required as an electrical insulating medium as well, its wall thickness will have to be carefully determined in order to ensure maximum insulating capacities. Unduly thin walls, whilst being strong enough in a mechanical sense for the purposes in view, might be too thin to give best insulating results if the part acts as an insulator.

Wall thickness will be determined by the size of the component and the duties to be fulfilled. Very thin wall sections can be successfully molded, viz., as low as .045 in. for the thermoplastics, and about .070 in. with thermo-setting materials.

If the component is only small in size and has very light mechanical functions to perform, the above figures would be satisfactory. On the other hand, if the component is very large, and to be compression molded in thermo-setting substances, then it might be necessary to increase wall thickness up to as much as .350 in., or evenly slightly above this figure.

The chief points to be observed in wall thickness design is that the thickness should be as **even** and **regular** as possible throughout the whole component. Sudden and large changes in sectional thickness should be avoided. Non-uniform wall sections may lead to numerous troubles in mold operation, and in respect of the finished quality of the article. Unequalized cooling stresses arising from uneven wall section may cause porosity, distortion or cracking of the thinner portions.

With compression-molded components heavy sections might be undercured, this leading to weakness of the component at such points. Surface sinks and disfigurations may also occur in connection with the molding of components of this kind.

In cases where the component is to be deeply cored the walls should be amply tapered, with the **thinnest portions nearest the parting line surface** of the mold.

A better flow will thus be obtained, and the material will flow upwards, away from the lower portions of the mold cavity. If the latter is fairly deep it may well be that by the time the material reaches the upper portions of the cavity it will have progressed well into the "cure" stage.

It will thus be appreciated that if the component design is such as requires the thicker portions of the wall to be located at the top of the cavity there might be a risk of under-curing or premature curing taking place, with resultant weakness in the finished component. Such a condition might also produce an improper "fill" and a partially-formed molding.

It should be borne in mind that the strength of a wall may often be materially increased by the addition of a fillet, rib, beading or ledge at a particular point. By the use of such stiffening features the general wall thickness may often be maintained within small limits.

In the final determination of the wall thickness to be used it is nearly always advisable for the user or component designer to discuss the matter with the mould engineer, who will be able to advise more expertly in the light of the service requirements involved and the material being used, and the strength characteristics to be obtained.

(To be continued)

This article is printed by permission of the English magazine "Plastics".

OPERATION "JACKPOT" IS PHILLY FEATURE

A. J. Kissileff

The May meeting of the combined Philadelphia SPE and SPI chapters was definitely "Jack Pot."

Over 200 members and guests gathered to hear Gene Morris, Owens Corning Fiberglas 1951 "Textile Salesman of the Year," detail the progress of the glass fiber industry. With the aid of an interesting and educational film prepared by Owens Corning, genial Gene opened the meeting with information of such tremendous interest that the entire audience clamored for more. Gene displayed various fabrics, textiles, tote boxes and trays, aircraft ducting and many other reinforced plastic items in addition to the many types of glass fibers supplied by his company.

Following Gene, Dr. Paul M. Elliott, of Naugatuck Chemical, addressed the assembly on the "Technical Aspects of Polyester Resins." Dr. Elliott reviewed dielectric, tensile, impact and other properties of the polyesters after reinforcement with glass fibers, outlining in minute detail why the reinforced plastics industry has mushroomed to its present scope and will continue to do so for many years to come.

The concluding speaker, I. M. Scott, president of Winner Manufacturing Company of Trenton, N. J., presented a brief but eye opening word picture of processing reinforced plastics. Caution was Scott's byword, which indicated that many pitfalls are strewn along the road to successful fabricating of these materials. Scott emphasized that "Nothing should be taken for granted. Only by utilizing expert technical skills can we be sure where the process can be applied."

He insisted that before the operation is introduced in any industry, the manufacturer ought to have a need, and the production must be economically sound. Said Scott, "We do not claim to replace steel, aluminum, wood and all other materials used over the ages, but we do have a particular spot in the vast industrial picture."

Just prior to the meeting, members viewed a 12-foot polyester fiber boat, one of Winner Manufacturing Co's. "Plasti-Craft," a real beauty. The boat was donated as door prize number one, by Naugatuck and Winner.

It was won by Al Herring, popular member of the Naugatuck organization. When asked how he felt, Al replied, "It makes me seasick just to think of how I'm going to row it back to Connecticut."

Other door prizes consisted of reinforced polyester lamp shades and several glass fiber fishing rods.

George Koch, local SPE president announced that summer activities would be suspended until September after the annual outing on June 25th at Whitemarsh Valley Country Club. Outing chairman Charley Thomas made it clear that the Whitemarsh Course is considered to be one of the toughest in the east, rating with such courses as Merion, Pine Valley and Philmont. He suggested that duffers might be permitted to use shovels to get out of the 128 sand traps, spotted throughout the course.

Members of both SPE and SPI as well as many guests from industry and aircraft companies from all parts of the country were most enthusiastic about the meeting which was without question the best attended and most exciting ever held in the Philadelphia area.

"Plastics Futures" Heard At East New England

Robert Davenport

Springtime activities for the Eastern New England Section of the SPE came to a close with the provocative address, "Plastics Futures," by Hiram McCann, editor of Modern Plastics magazine. Mr. McCann spoke to a joint SPE-SPI assembly at the Beaconsfield Hotel at their Thursday evening dinner meeting, May 25th. Approximately sixty members and their guests enthusiastically greeted his talk.

Mr. McCann's talk was especially significant since all industry is facing a sales slump. This presents, according to Mr. McCann, a two-fold challenge: The ever-increasing supply of plastics raw materials and the gigantic unopened or only slightly tapped markets. Synthetic resins amount to 2,600,000,000 pounds for 1952, which is **double** the 1947 level and **six** times the 1942 total. By 1955, McCann predicted it would be between 3,800,000,000 and 4,700,000,000 pounds on the basis of already-announced expansion plans and already issued certificates of necessity.

This increased production is the plastics industry's challenge—disposition of it is our responsibility and opportunity. McCann went on to illustrate the growth of plastics. Today there are 16.8 pounds of plastic for each of our 154,000,000 people in the United States. By 1955 there will be 28.3 pounds for each of 166,000,000 people. Metals are also vying for position as illustrated by the present day use of 1365 pounds of steel per capita and 15 pounds of aluminum as against the proposed increase to 1500 pounds of steel and 20+ pounds of aluminum.

McCann stated that the ever-increasing population — more young people and old people—would necessitate greater production. This would call for more workers and therefore more people with money to spend. The present decline in television, radio, and refrigerator sales is countered by increased room air conditioner, home freezer, and steam iron sales. This plus the return of television sales with the opening of new stations, coming of colorvision, etc., are only temporary adjustments. Sales must be pushed to capture these and the newer applications.

Hiram McCann

The housing program will require plastics flooring, decorative laminates, wiring devices, wall and furniture coverings, appliances, tableware, kitchen gadgets, plus the possibility of plastic gutters, down-spouts, roofing materials, molded furnishings, outdoor equipment, water systems, garage doors, and even plastics bathroom fixtures.

This growth will be matched by the public utilities, schools, shopping centers, etc., all potentially large-volume plastics users.

McCann went on to illustrate the gigantic strides plastics have made in toys, housewares, gadgets, premiums, and specific items such as the home refrigerator and the automobile.

He then referred to the individual materials and discussed their growth possibilities. "Plastics Futures," according to McCann, are without parallel, but now they must be sold.

During the morning and afternoon the SPE National Council meeting held forth at the Beaconsfield with approximately ten members present, including Mrs. Day, SPE Executive Secretary. The meeting was interrupted only for lunch and was concluded in time for the usual 6:00 P.M. preprandial hour. The dinner, followed by Mr. McCann's address, concluded our season superbly.

The fall program is yet to be announced. The first meeting will take place soon after Labor Day. With the 1953 Convention so near, the various New England Chapters will be very busy through the autumn. Remember, Convention of SPE to be in Boston '53.

CHICAGO HAS PANEL ON DESIGN TOPICS

M. A. Self

The Chicago Joint meeting of the Society of Plastics Engineers, Inc. and the Society of the Plastics Industry held on the evening of May 14, was attended by well over 100 Chicago members and guests. The subject of the evening was "New Design Application for Plastics" and was a panel discussion headed by Jean O. Reinecke of Reinecke & Associates. Other panel members contributing to the discussion were James Johnson of Chicago Molded Products, Eric Furholmen of Furnell, Inc., R. P. Smith of Bakelite Corporation, Arthur J. Bachner of Midland Die and Engraving Company and T. F. Muckenfuss of the J. B. Products Corporation.

Highlights of the discussion were that the plastic industry is faced with a tough competitive selling job. The primary attack on this as offered by Mr. Johnson is to reduce labor costs, but even more important is to develop new applications through individual research and the industrial designers. Mr. Furholmen proposed the use of injection molding of polystyrene impregnated with fiber glass to obtain superior properties, allowing for wider application of this particular plastic. The use of phenolic plastic in the furniture field, allowing for different designs, seamless products and resistance to warpage was discussed by Mr. Smith, as being an application for plastic in those lines of furniture where the volume justified the cost of the mold. Tom Muckenfuss, formerly of R.C.A.'s Home Instrument Division, discussed the problems of a major appliance company in its desire to shorten delivery time of molds without paying premium prices, and problems resulting from lack of standards in design and construction of molds, thereby leading to the impossibility to predict the exact manner in which the mold will function in production. It was suggested that by a cooperative program on the part of the material suppliers, mold makers and molders, it should be possible to arrive at certain standards which would allow the major appliance companies to fully anticipate the time and problems which would arise in the initiation of designs into production.

The part carried by a design group was covered by Mr. Reinecke. It was pointed out that the design group works closely with the engineering branch in arriving at satisfactory materials for application and that they work closely with the sales group in that design is primarily for the purpose of increasing sales. Mr. Reinecke further emphasized that the designer depends on the Engineering Department to arrive at the "how" of producing any given part or unit.

A very lively discussion between the panel members and the audience followed. In summarizing, several molders and extruders indicated the desirability for appliance manufacturers and other plastic users to plan and and schedule further in advance of required delivery dates. Such steps would allow more time to complete molds and dies and to make test runs prior to full scale production.

In the past, as a result of pressure, it has been the tendency of the plastic industry to by-pass new developments in order to put a product into production with the minimum delay. With the evolvment of plastic technology and the standardization of products, procedures and designs, it will become easier for the industry to integrate new developments into their operations. It is important that the industry take advantage of these new developments and all parties should work toward that end.

In line with previously expressed intentions, the Chicago section is expanding its activities and representatives have already attended meetings of the National Association of Corrosion Engineers and the Chicago Technical Society.

* * *

The schedule for the golf outings is as follows:

June 20, 21 & 22 — Nippersink Golf Club

July 25 — Elmhurst Country Club

August 28 — Rolling Green Country Club.

Good golf, good food and a good time is a summary of similar past outings.

* * *

We are pleased to report that our membership drive in the Chicago area has netted over thirty applications for membership in the SPE so far this year. This successful drive was organized by B. D. "Jack" Ashbaugh of H. P. M. Machinery.

* * *

Our congratulations to **Ken Rouzer** who has been promoted to the position of Plant Manager of the Plastics Division at General American Transportation Corporation. Ken has for the past several years been associated with GATC in the capacity of Asst. Chief Engineer and has been associated with the plastic industry for 18 years.

* * *

T. F. Muckenfuss has come to Chicago as General Manager of J. B. Products Corporation, a leading company in the custom finishing of plastics in the Chicago area. Tom procured all the plastic parts for R.C.A. in Camden, New Jersey for the last 5 years. He advises that J. B.'s high vacuum metallizing and decorative facilities are available on the job shop basis to all custom molders.

9th SPE

CONFERENCE

Boston January 1953

BARRIER-PRIBBLE & CO., INC.

554 EBEN STREET, NEW HAVEN, IND.

Memo:—Al Barrier,

I have been looking over our advertising in the SPE Journal and it seems to me that we should be telling the Plastics Engineers more about our design work and some of the really tough jobs that turned out OK. Something like molding .020 dia. soft copper wire through a .343" dia. flange on a spool. Weren't there 8 flanges and 8 wires on that part?

I **heard** you tell that guy the other day that we were nuts about details, but isn't that what makes the difference between a designer and a draftsman?

June, 1952

Yours for better products through better design

Wayne Pribble

VACUUM FORMING AND METALLIZING AT N. Y.

Arthur M. Merrill

Some 82 members and guests of the New York Section attended a regular dinner meeting on May 21 at the Gotham Hotel. Two talks were presented during the technical session which followed the cocktail hour and dinner: E. Bowman Stratton, Jr., Industrial Radiant Heat Corp., spoke on "Vacuum Forming Processes;" and Harry Collins, Metallizing Engineering Co., discussed "Sprayed Metal Dies for Low Pressure Molding."

Mr. Stratton pointed out that the use of vacuum as a means of forming preheated thermoplastic sheet material is not new, but has not been widely used as a production process because of the lack of efficient heating equipment. The introduction of flat, uniform radiant surface heaters, such as the Fiberglass Superheater, has provided the speed and control necessary for economic sheet forming. The new process and equipment was first proven in the production forming of preprinted, three-dimensional plastic relief maps for the army.

The process involves clamping the plastic sheet to the edges of an open-face vacuum box suspended over the male or female die in the box. The heater is moved over the box, 1½ inches above the plastic. After an optimum preheat dwell, the air is quickly evacuated from the box and die surface through fine holes in the die, and the hot plastic forms into the die.

Advantages of the vacuum forming process include: (1) cheap die construction of plaster, wood, sprayed metal shells, etc.; (2) fast production by means of short cycles and multiple dies; (3) use of preprinted art work on the flat sheets prior to forming is feasible; (4) wide range of flexibility in sheet size, gage (0.001-0.125 inch), and material type; and (5) the process provides a quick means for product design development and the production of samples for market testing. Applications for the process include packagings, advertising displays, deep embossing of flexible vinyls, and industrial components and parts.

Mr. Collins stated that the recent growth in the use of vacuum forming methods, as discussed by Mr. Stratton, has brought back the demand for sprayed metal molds. However, each mold problem must be considered individually. While sprayed metal molds reproduce the details of the piece being sprayed, they can not compete with regular or hobbed metal molds.

Sprayed metal molds can be made from almost any type of material as a base, using almost any metal in the spray. The different shrinkage rates of different metals is a problem and a special spray metal has been developed to overcome this difficulty. The metal shell molds may also be strengthened by the use of glass fiber laminates. Metal spraying uses oxygen and acetylene, and temperatures up to 6,000°F. may be developed. A rather large volume of air, about 35 cubic feet per minute, is also essential in the process.

The meeting concluded with a drawing for door prizes contributed by Empire Brushes, Inc.; Jamison Plastics Corp.; Leaf Plastics, Inc.; Nordan Plastics Corp.; and F. J. Stokes Machine Co. Table favors were distributed through the courtesy of Baby World, Inc.

New members added by the New York Section during the past two months include: Robert Baldwin, Precision Valves, Inc.; J. S. Brody, Franklin Jeffrey Corp.; Robert Doyle, Chester Packaging Products Corp.; William Hogenson, Jr., Stanley Sapery Co.; Henry R. Kukawski, RC Molding, Inc.; Leon Lautin, Lautin Plastics; Frank V. O'Neil, H. Kohnstamm & Co., Inc.; Charles M. Rogow, B. G. Foreman Co., Inc.; David Rome, David Rome Associates; Henry Schoenau, Plastiline, Inc.; Gerard H. Sloane, H. Kohnstamm & Co., Inc.; and Leo Spalter, Progressive Plastics Co.

Everyone agrees on the Model 6002 Mold Temperature Control Unit — the new self contained dual unit consisting of two independent heating, cooling and circulating systems in a single portable unit. Exclusives include high hose connections, fast water circulation, easy to see and reach controls and dials, plus modulating cooling controls. Efficiently adapted to large or small molds — ready to operate, just connect to source of electric power, cold water and drain.

MANUFACTURERS OF TEMPERATURE CONTROL EQUIPMENT SINCE 1916

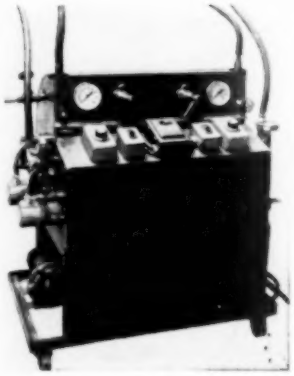
Sterlco Model 6002
MOLD TEMPERATURE CONTROL UNIT

INDUSTRIAL CONTROL DIVISION
STERLING, INC.
3732 N. Holton Street • Milwaukee 12, Wis.

For Injection Molders

COMPLETELY NEW—LOW COST

IMS—Meridian Circulator



Redesigned for Top Performance Compact — High Capacity Pumps — Quick Heat — Full Sensitive Heating (or Cooling)

Price Complete $895.00

Injection Molders Supply Co.
PENTON BLDG. CLEVELAND 13, OHIO

SLUSH MOLDING TOPIC AT CONNECTICUT

David Mersey

Connecticut Section's May meeting took place back in Bridgeport on the 8th. This was the last indoor meeting until September.

Mr. E. H. Hayden of the Stanley Chemical Co., talked on 'Plastisols and Slush Molding.' Not only did he cover various compounds, but also the problems pertaining to tool, production, and finishing. Over-shoes, door-mats, doll parts, gaskets, bellows, extrusions, moldings, were only a few of the many samples he presented.

The resins are the high flow types, thus varying from the types used in conventional injection or extrusion compounds. Plasticisers may be the monomeric or polymeric (resin) types, or combinations of both. The plasticiser usually produces a high resin solvency at high temperatures, and a low solvency at low temperatures. Stabilizers serve two functions; they inhibit the action of ultra violet light and the release of free HCl. Lubricants serve as mold release agents.

Molding of plastisols may be done by a number of methods; open mold; one-pour; two-pour; split mold; and multi-cavity. In the one-pour system the paste is poured into the pre-heated mold, thus forming a gell against the hot mold surface; whereas, in the two-pour method, heat is applied after the paste has been poured into the cold mold. Multi-cavity molds may be made of steel or anodized aluminum, and filled with a mechanical gun or an injection system.

Because of the low durometer of plastisols, this material is applicable in both injection and extrusion fields. In either application, the paste is partially fused (extruded), then granulated, then completely fused in the final injection or extrusion process. Although the paste may be molded directly, it is best handled by being first partially fused and pelletized.

One of the problems in producing this compound is the selection of proper pigments. Irons and zincs are to be avoided; however, most other pigments may be used as fillers, stabilizers, or coloring agents. Another problem is the release of air from the paste. De-airing may be accomplished by vacuum, agitation, or a combination of vacuum and centrifuge.

Molds are inexpensive (cost and maintainence) and may be made of aluminum or copper. The latter type is usually made by plating over a wax model, and is the usual type of mold used in the doll industry. Since we are dealing with an elastomer, undercuts presents a less serious problem here than in conventional mold design.

Mr. Hayden also said a few words about plastigels, which were described as essentially plastisols to which had been added a gelling agent. This family of vinyls might be molded or extruded without heat, then heat fused after forming.

In the question period which followed, it developed that the two-pour method had some advantages over the one-pour; however, the one-pour method had the advantage with long draw pieces. It was also brought out the shelf life for plastisols is good.

S. Cal. Talk Is On Organosols, Plastisols

R. L. Whann

Mr. Elbert Davis, Plas-Kem Corp., Burbank, California, presented a very informative and interesting discussion on the technical details of the entire field of vinyl plastisols, organsols, and plastigels, including the casting, coating, and foaming techniques and the various formulations that are tailored for specific applications.

In introducing the subject, Mr. Davis pointed out the advantages of the vinyl dispersion resins are that high molecular-weight insoluble resins can be used to obtain high solids contents with low cost solvents.

Organosols: An organosol is a mixture of polyvinyl chloride resin, solvent, plasticizer, stabilizer, filler, color and additives for special uses.

Polar solvents such as dibutyl ketone, sometimes referred to as disperents, are generally employed. They partially solvate the resin and facilitate the dispersion of the resin clusters. An excessive amount of a polar solvent will cause too much dispersion and cause a gel to form. To avoid a gel and yet obtain a minimum (low) viscosity non-polar solvents such as mineral spirits or xylene are used.

Plasticizers are usually polar compounds and are considered as part of the dispersant. They must be non-solvent at room temperature for good viscosity stability during storage and must be good solvents at elevated temperature to yield a good film. Monomeric esters are good solvents for low viscosities. Resinous or polymerics are poor solvents and yield high viscosities. Blends of these types are tailored for low migration, low lacquer lift on low extraction characteristics.

Heat stabilizers are added to absorb the hydrochloric acid from the vinyl chloride polymerization reaction. Ultra-violet light catalyzes oxidative breakdown of the resin chain, therefore light stabilizers are added. These light stabilizers act as reactive reducing agents, acid absorbers and light screens. They also protect the plasticizers from breakdown by hydrolysis and oxidation.

Lubricants are added to the resin mixtures to facilitate removal of the cast part from the mold. These may be waxes, oils, metallic soaps or silicones.

Any pigment added for color must be resistant to heat and acid breakdown.

There are a number of additives which are employed to impart flame resistance, fungus resistance, abrasion and low temperature resistance.

Organosols find application for spraying, dipping, casting, doctor blade, and roll coating.

Plastisols: Plastisols are similar to organosols except that solvents are not employed. They will be composed of polyvinyl chloride resin, plasticizer, stabilizer, lubricant, color and filler.

Plastisols find principal application for solid and slush molding. Low viscosity, low yield plastisol mixes are generally employed for slush molding. Slush molds may be made from a wood, clay or plastic model. Slush molds are usually made of metal, either sprayed or cast lead or electroformed nickel. They may be either male or female. Duplicate molds can be made from the first plastisol castings.

The slush molding operation consists of preheating the mold pouring mix into mold, dwell, pour out excess material (leaving a gelled coating in the mold), cure, cool and remove casting. The preheating cycle depends upon weight and material of mold, type of plastisol to be cast and desired thickness of cast part. Cast parts are stripped from the molds either manually or using compressed air or vacuum. A two pour method is often used to obtain bubble free surfaces.

A closed mold procedure is sometimes employed. It consists of filling one-half, close mold, rotate mold in oven, cool partially, and open. The part will expand upon opening mold, therefore the closed casting is punctured to avoid distortion.

Spraying and Dipping: For spraying low viscosity, low dilatancy plastisol mixes are employed having some yield value and thixotropy to avoid sag. For hot dip, low yield plastisols are used for good flow out. For cold dip, an appreciable yield value is necessary to avoid drips and also vibration is employed to avoid and remove drips.

Conclusion: The large display of vinyl plastisol materials and parts which was provided by several of the material suppliers and fabricators, added a great deal to the success of the meeting. The keen interest in this new and rapidly expanding field was demonstrated by the large attendance of approximately 85 persons, each very prominent in the field, as well as the many questions asked during the discussion period which followed.

THE *Injection* MOLDERSCOPE

By A. R. Morse

President, Injection Molder's Supply Co.

A Sad Experience

Many of our readers are familiar with IMS Silicone Spray Injection Mold Release. We recently changed FROM an injection molded valve TO an all metal one because we could not get a plastic valve that was made right, and that would perform as it should. This costly experience with an injection molded part carries enough of a moral to make the story interesting to injection molders.

The valve in question was a simple part, a round rod-like section $\frac{3}{8}$"x$\frac{3}{8}$" molded of polyethylene with two cored holes. Into one of the cored holes a small injection nozzle was pressed. This hole was molded off size and out of round so much of the time that most of the little nozzles would easily blow out. In addition there was so much flash inside the part where the two holes met that small pieces of it would get into the atomizing nozzle and plug it—and the injection molder who tried to use it would send the can back and complain that it was no good. Every time I got one of these cans back I would replace it and give a grim laugh: I hoped it was not a case of the pot calling the kettle black! We worried along with the injection molded part much longer than we should have—out of a kind of industry loyalty, I guess, and then cancelled an order for 25,000 valves. To make the story worse, we changed plans for using the injection molded part on a group of 100,000 cans we are planning to put up for a Gun Spray and a Record Spray soon to be introduced on to the consumer market to help even out the peaks and valleys of our business.

Now as to the cause of the trouble. The cycle was probably too fast and the mold was not cold enough so that the shrinkage could be controlled. It looked as though some of the parts were pulled from pins while still hot or soft. A chilled mold with polyethylene therefore is indicated—a new and interesting development in recent months. From the percentage of bad valves encountered, I would estimate that about 30% of the cavities needed reworking, re-gating or reventing, and the pins changed to a smaller size. Getting rid of the internal flash would be a tough, precision tool making job—but one that should surely be undertaken. At any rate—there is our sad experience—a plastic story in reverse: metal takes the place of an injection molded part!

The SPE Journal and Editor Jesse Day

While it is not within the province of this column to editorialize, this is one diversion that I hope will get past the editor's blue pencil which so often keeps our remarks from offending delicate feelings or treading on competition-sensitive toes.

The job of editing a paper like our SPE Journal is a tremendous one. As I look over my files of our paper, back to the red, raw new baby beginnings—to the SPE News Bulletin, and even back of that (1945) to the SPE Commentator in 1942 I can see an orderly progress in our development that is quite remarkable. And most of it has been under the guiding hand of Jesse H. Day.

There is no doubt in my mind that any paper would have a tough battle to establish itself on any really influential scale in the plastics industry. Several papers have been started (Industrial Plastics, for example) and have fallen by the wayside. Today, Modern Plastics and Plastics World each serving a rather distinct and different purpose about divide the industry news between them.

To be realistic therefore about the future of the Journal, we have to realize just how much we owe Jesse Day for the countless unremunerated hours he spends on the paper, and if we have any suggestions for improving the paper we should bear in mind that it would be financially impossible for the society to get out the paper at all without a considerable amount of labor of love from the present editor. There can be no doubt but that by publishing news of the sections, abstracts of papers from foreign journals not readily available in this country, and by presenting papers from our members, the Journal can continue to be a useful force in the trade.

If the members who feel the Journal is deficient will bear in mind that advertizing revenues can help overcome the deficiences about which they complain—and if those same members can prevail on their companies to invest in SPE Journal Advertising, it will be possible for us to continue the progress of the past 5 years and still not curtail either the Journal or other functions of the National Office.

But whatever happens to the SPE Journal, these paragraphs will give credit where credit is due: that is to our long-time editor Jesse H. Day who deserves far more credit than the membership at large can possibly realize for the steady progress we have made in the face of limited funds and other kinds of handicaps to the present issue of June, 1952.

After Summer Vacation

In my file for future articles are some notes on Depreciation of Injection Machines—a mighty controversial field, what with molders asking that the depreciation rate be cut to 5 years, and yet on the other hand with people asking and getting in cash today what they paid for a machine 4, 5 & 6 or even more years ago!

Then I plan to tell a mighty interesting story that is 10 years old now, but still news on injection molding and blowing of plastics—and to hand out plaudits that the men responsible never got for their fine pioneering work. In addition will come progress reports on the Ball Check Nozzle, on molders' opinions of preplasticizing units, more news on cold molds, and other items of current interest to injection molders. But always bear in mind that this column is only one man's opinion, and while I am in a sense on the side-line nevertheless I can still be off on a tangent and not know it.

With items like water-cooling of the front end of heating cylinders instead of the back end and other developments or "excitements" as Dave Sloan would say constantly in the offing, it seems there is a place for a space devoted exclusively to news for the injection molder.

N. W. Penn. Notes

Paul Roche

In the course of a miscellaneous shuffle to fill a vacancy in the home office in Midland, Dow Chemical Company has set **Al Berry** up in a new territory. Still operating out of the Cleveland office, Al is now touching a western area including Cambridge, Ohio and Richmond, Indiana. In the Eastern Division of the Cleveland Office Al has been replaced by **Craig Waldbillig.** With the thought in mind of remaining on the guest list for the SPE summer picnic, Al entertained certain of the section directors at "tea" before taking his leave.

Chet Berry (No relation to Al, above, but brother of members Lee and Bob, Quina-Berry Corporation and Berry Tool respectively) has recently become connected with Erie Resistor Corporation in the capacity of tool engineer in the Plastics Division. Chet has had many years of experience in the industry having been connected previously with Quinn-Berry Corporation and Nosco Plastics also.

Bruno Roehrl (Nosco Plastics) is now number one undisputed champion father of the Northwestern Pennsylvania Section. The Roehrl's proudly added number six, a new daughter, in May.

Providence News

Robert J. Feuchter

At a dinner meeting of the Board of Directors on May 14 at the Wayland Manor, we had the pleasure of meeting our National President, W. D. Bracken and Mrs. Bess Day our Executive Secretary. We enjoyed their visit and hope that they will be able to attend one of our regular meetings at some future time.

Our regular Dinner Meeting was held on May 22 at the Wayland Manor. A social hour of good fellowship and cheer was followed by an excellent dinner and a short business session. Two speakers were featured at the Technical Session: Mr. W. E. Welch, Technical Service, Monsanto Chemical Co. who spoke on the subject "Improvement of Plastic Items by Post Molding Treatment." His address was illustrated by Visual-Cast pictures and beautiful samples of large plastic moldings in various steps of finishing operations—paint spraying, lacquering and metallizing. Mr. Welch stressed the point that through careful planning and improvement of the molded parts the eye appeal and sales value will be greatly increased—and his samples proved the point.

Our second speaker, Mr. J. B. Merrill of the National Research Corporation, Cambridge, Mass., an expert on Vacuum Metallizing, discussed the equipment and methods in this process as developed by his company. Reprints furnished by the National Research Corporation showed complete installations, production flow pictures, work-carrying devices and lacquering equipment with the necessary ovens. Metallized samples illustrated his explanation and an approximate cost of six cents per square foot of metallized surface was mentioned, including amortization of equipment and operating costs.

The meeting closed with a drawing for door prizes, including a beautiful electric clock contributed by the General Electric Co., Taunton, Mass., through the courtesy of Mr. G. S. Berge, Plant Manager, in co-operation with our Membership Chairman and Director, Mr. Emil Kleiner.

Our last meeting before the summer adjournment was on Thursday, June 19.

Metallizing Booklet

Vacuum Metallizing Today is the title of a comprehensive pamphlet which may be had by writing to F. J. Stokes Machine Co., 5500 Tabor Road, Philadelphia 20, Pa.

WANT TO BE IMPORTANT?

See SPE Ad on page 3

with

METASAP STEARATES

PROBLEM: How to obtain consistently perfect preforms and better finished products with maximum economy.

ANSWER: Plain as the hand of a "Plastiversal" machine in front of your face!

In photograph A—the hand of the Plastiversal is registering 50 lbs. of pressure—the pressure required, at a leading molding plant, *before* Metasap Calcium Stearate was added to molding compounds. Such preforms were often badly delaminated upon ejection — as shown here.

In photograph B—the hand of the Plastiversal is registering 10 lbs.—all the pressure required to eject the same size preforms when they contained Metasap Calcium Stearate. Such preforms are obtained perfect in shape—as shown here.

Use of Metasap Stearates as lubricants in molding compounds results in:

Perfect Preforms—obtainable with lower ejection pressures.

Better Finished Products—because rapid, easy ejection results in clean-cut pieces with more marketable finish.

All of which means substantial production economies, longer mold life . . . increased output.

METASAP CHEMICAL COMPANY, Harrison, N. J.

Chicago • Boston • Cedartown, Ga. • Richmond, Calif.

JOURNAL

Official Publication of The Society of Plastics Engineers, Inc. 409 Security Bank Building, Athens, Ohio.

POSTMASTER. Forwarding and Return Postage Guaranteed.

UNIVERSITY OF MICHIGAN
GENERAL LIBRARY
ANN ARBOR MICHIGAN

71033

TORONTO ROUND-TABLE DISCUSSES PLASTIC PIPE; MOLDING PROBLEMS

G. M. Hale

This meeting took the form of a panel discussion at which T. J. Carey was moderator and the panel was composed of Messrs. B. Kellam, T. Wold, H. A. W. Lynch and F. McEwen.

1. The first subject put to the panel, by C. Seay, was what allowance to allow on mould for shrinkage. The following conclusions were reached:

It is not possible to forecast exact shrinkage and where tolerances are close it is necessary to use trial and error and rely mainly on judgement and experience gained on previous jobs.

Data supplied by material suppliers, while as accurate as it is possible for them to make it, cannot be relied upon 100% due to shrinkage also being dependent upon the casting machine, and in the case of thermoplastics the location of the gates and type of gating. Figures were given by one moulder which showed a 33% decrease in shrinkage when they changed from conventional gating to restricted gating.

The method of measuring shrinkage has much to do with the results obtained, it should be measured from cold mould to cold piece.

2. A. Long questioned the panel as to the future of plastic piping. We were advised that at present there are two groups with a budget of $5,000 each, studying the corrosion of underground pipe and conduit. It was pointed out that a 100 foot length of some plastic piping had a 16" expansion over a temperature range of 100°F. and hence the installation of plastic piping is of utmost importance. At the moment more details are required on installation procedure including connections, fittings, etc. In this regard it was pointed out that the injection moulders should work very closely with the extruders to avail themselves of the large market for pipe-fittings.

Cold flow was discussed for the various thermoplastics as well as polyesters and it was pointed out that most materials were not satisfactory for water over 100°F.

It was concluded that plastic piping should first be investigated where present piping is not entirely satisfactory. These end uses would include irrigation, oil fields, mining, jet wells, chemical plants, etc.

3. The next question, advanced by H. Humphries had to do with possible uses for flash from thermosetting moulding.

Melamine and urea flash can be sold for fertilizer, however, phenolic flash has found very little use. There are, or have been, moulders who have worked in about 10% flash with virgin stock, however, one of our members who tried this advised that they found their rejects were increased to such an extent that it was not economically advantageous.

It was learned that it might be possible to use melamine as insulation and any of them may be suitable as packing in low pressure fractional distillation columns.

4. J. Schneider inquired as to the causes of checking of styrene mouldings after lacquering and aging and possible cures.

It was agreed that checking was due to: (1) solvents in the lacquer and (2) strains in the piece. As the checking referred to in the question was developing prior to the piece being put on the market, stresses and strains caused by improper use were not considered. It was generally agreed that annealing was the best method to release strain caused in the moulding and this also increases the dimensional stability of the piece. As for the checking caused by lacquers was concerned this amounts to the proper selection of lacquers but a lacquer which bites into the material breaks through the outer skin and will thus permit the internal strains to pull and thus cause cracking. Annealing would thus help checking caused by lacquering through the removal of these internal strains.

Other causes of checking are improper machining and packing in the mould.

5. The next question put forward by J. Schneider was how to avoid cracking—after a period of time—in urea mouldings especially when transfer or plunger moulding was used. It was pointed out that urea mouldings, especially when transfer or plunger methods used, are not dimensionally stable and moisture, temperature, etc. Affected ureas to a large extent, new materials now under test might help but with present materials transfer and plunger moulding should be avoided. Transfer moulding of thermoplastics was mentioned and it was stated that it amounts to preplasticizing the material. The advantages and disadvantages of preplasticizing were discussed.

This regular meeting of the Toronto Section was held at the St. Regis Hotel on Tuesday, the 20th of May at which the following officers were present:

T. J. Carey, Vice-President; J. L. Burnie, Secretary; H. A. W. Lynch, F. McEwen, A. McL. Carr-Harris, Geo. Hale, B. Kellam, J. Schneider.

Midwest Plant Visit

E. W. Ulrich

The Upper Midwest Section of the SPE went on their annual spring field trip by bus and car on Monday, May 19, from St. Paul and Minneapolis to Winona, Minnesota, to visit the Peerless Chain Company and the Fiberite Corporation.

The educational and enjoyable plant visits were followed by a cocktail hour and dinner at the Oaks Club. Approximately 45 members and guests participated.

The Peerless Chain Company is an important USA producer of a variety of chains, particularly tire chains, and the Fiberite Corporation is a manufacturer of impact molding resins.

TRU-CAST

Beryllium Copper Castings—are Precision Engineered to Exacting Demands by Master Craftsmen!!

DEMAND THE BEST
INSIST ON TRU-CASTINGS!

MANCO PRODUCTS, Incorporated

2401 SCHAEFER ROAD
MELVINDALE, MICHIGAN